

County of San Diego

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TO: Basic and Advanced Life Support Provider Agencies

Base Hospital Nurse Coordinators Base Hospital Medical Directors

EMT-Paramedic Training Program Coordinators

FROM: Gary M. Vilke, MD, FACEP, FAAEM

EMS Medical Director

Division of Emergency Medical Services

NEW / REVISED 2005 EMERGENCY MEDICAL SERVICES TREATMENT PROTOCOLS / POLICIES

For the past year, many committees have been working to update the policies and protocols contained within the County of San Diego Emergency Medical Services Policy and Procedure Manual. We are pleased once again to present the complete manual on CD ROM. Summaries of the ALS/BLS adult and pediatric treatment changes are included on the CD ROM. The table of contents reflects the documents that have been updated for July 1, 2005 implementation.

Please replace earlier copies of your EMS Policy Manual with the updated documents. Contact Merle Rupp at the EMS office for questions related to documents in the EMS System Policy Manual.

Thank you.

GARY M. VILKE, MD, FACEP, FAAEM

EMS Medical Director

Division of Emergency Medical Services

GV:MM Enclosure

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SUMMARY OF CHANGES TO <u>SECTION II</u> AND <u>ADULT</u> ALS/BLS TREATMENT PROTOCOLS FOR JULY 1, 2005

	3011 1, 2003
	SECTION II
S-100 & S-101	Change:
Introduction &	 Definition of when to use adult medication dosages for pediatric patients from
Glossary of Terms	≥ 50 kg to ≥ 37 kg (81lbs)
S-102	Add:
List of Abbreviations	CO2 - Carbon Dioxide
	Gm to Gram
	Change:
	PVC contraction to PVC complex
	Delete:
	BPO – Base Physician Order
P-103	Add:
BLS/ALS Ambulance	Feeding tube size 8 French
Inventory	ET tube size 5.5 may be cuffed if available or uncuffed
	 Quantitative End Tidal CO₂ Capnography (optional item) may be used in lieu of
	End Tidal CO₂ Detection Devices (<15kg, ≥15kg) if agency uses capnography
	Optional BLS: Mark 1 Kit(s) or equivalent
	Delete:
	Verapamil
P-104	Add:
ALS Skills Use	Repeat BS not indicated en route if patient is improving
	External pacing Atropine1 mg to be administered prior to pacing
	Change:
	Synchronized cardioversion wording to match protocol
	Delete:
	VSM for stable/unstable SVT
P-110 Adult ALS SO	Changed to reflects changes in <u>SO</u>
S-105, D-108 & D-109	Reviewed without changes
P-111 & P-113	
Adult & Pediatric	Changed to reflect changes in <u>SO</u> and BHO
Communication	
Failure	
P-114	Change
Pediatric MICU	ET tube size 5.5 may be cuffed if available, or uncuffed
Inventory	Delete:
D 445	Phrase MMST Designated Personnel from top of protocol Change:
P-115	Change:
ALS Medication List	Lidocaine round to nearest 20 Park rain as a RURO for MO to BUO
	Back pain as a <u>BHPO</u> for MS to BHO Delete:
	Delete:
D 445 (a) Dadiataia	Verapamil Not included an CD for internal drug calculations.
P-115 (a) Pediatric	Not included on CD – for internal drug calculations
Weight Based	
Dosage Standards	

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P-117 ALS	Add:
Pediatric Drug Chart	NG tube sizes to all colors
r calacito brag chart	Epinephrine ETAD dosage in Orange and Green
	IO route for Atropine in bradycardia
	Change:
	Move volume column to far left of the table
	ADULT PROTOCOLS
Changes that affect	ALS
all adult protocols	Change:
'	• IV fluid bolus for systolic BP < 90 SO MR to maintain systolic BP > 90 SO
	Delete:
	Phrase "total of 3 does" from Epinephrine orders throughout protocols
	When using Dopamine:
S120	Dopamine goal is to keep systolic BP ≥ 90 but not to exceed 120 systolic
Abdominal Pain	IV fluid bolus as above
S121	TV Hald bolds as above
Airway Obstruction	Reviewed without changes
S122	ALS
Allergic	Change:
Reaction/	 Age for Epinephrine administration in known cardiac hx patients to ≥ 65
Anaphylaxis	IV fluid bolus/Dopamine as above
	Add:
S-123	Time/frequency interval (q3-5") to repeat Epinephrine BH⊙ in Anaphylaxis ALS
Altered Neuro	Opiod OD
Function	Change:
(Non-Traumatic)	Narcan titrating in opioid dependent pain management patients from BHO to SO
	Hypoglycemia Change:
	Description to: Symptomatic patient unresponsive to oral glucose agents Add:
	 Description to MR Dextrose order: If patient remains symptomatic and BS remains <75 mg/dl MR <u>SO</u>
	Delete:
	 Symptomatic unknown diabetic unresponsive to oral glucose agents from protocol
	Phrase "or unobtainable" from "If no IV" order for Glucagon Calculus
	Seizures Delete:
	Prolonged focal seizures without respiratory compromise section from bottom
	of protocol
S-124	BLS
Burns	Change chemical burns treatment to read:
	Brush off dry chemicals then flush with copious amounts of water
	ALS Change:
	Change: • IV orders from drip rate to fluid bolus, then TKO <u>SO</u>
S-125	• 1V Gracis Horri arip rate to fluid bolds, then TNO 30
Cardiac arrest	Protocol merged into S-127 Dysrhythmias
Unmonitored	S-125 deleted

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S-126	ALS:
Discomfort/pain of	Add:
suspected cardiac	"If available, consider 12 Lead EKG"
origin	Change:
	 If systolic BP ≥ 100 MR NTG q3-5" <u>SO</u>
	Dopamine as noted above
	 Note at bottom to read: If any patient has taken a sexual enhancement
	medication such as Viagra, Cialis, Levitra within 48 hours, NTG is
	contraindicated.
	Add:
	The word "discomfort" to NTG note at bottom of protocol
S-127	Change:
Dysrhythmias	• IV order to: IV fluid bolus 250 ml with clear lungs SO. MR to maintain systolic
	BP of ≥ 90 <u>SO</u>
	All Epinephrine orders to SO
	Unstable Bradycardia:
	Changes (in italics) to read:
	• Atropine 0.5 -1mg IVP for pulse <60 bpm SO MR q 3-5" to max of 3mg SO
	OR
	• Atropine 1-2 mg ET for pulse <60 bpm <u>SO</u> . MR q3-5" to max of 6mg administered
	dose <u>SO</u>
	If rhythm refractory to Atropine 1 mg:
	External cardiac pacemaker, if available, may use per <u>BHPO</u>
	If capture occurs sedate with Versed 1-5 mg IVP <u>BHPO</u>
	•
	Dopamine as noted above (after max Atropine or <i>initiation of pacing</i>) BHO
	SVT Change:
	Change:
	Move phrase "if no sinus pause" from between first and second dose of Adapasing to offer accord dose of Adapasing.
	Adenosine to after second dose of Adenosine.
	Atrial Fibrillation/Atrial Flutter:
	Delete:
	Verapamil
	Change:
	"Uncontrolled" to "Unstable" and add unstable parameters (systolic BP<90 and
	chest pain, dyspnea or altered LOC)
	Headings to Conscious and Unconscious
	Stable VT
	Delete: If rhythm refractory to treatment from the phrase: "If patient unstable
	with severe symptoms OR rhythm refractory to treatment"
	VF/Pulseless VT
	Add:
	"Cardiac arrest with no monitor available" to heading
	If monitor available" above Lidocaine orders
	Change:
	Epinephrine changes to <u>SO</u>
	Delete:
	NaHCO3 order
	Pulseless Electrical Activity (PEA)
	Add:
	 First dose of NaHCO3 SO. MR BHO
	Delete:
	Plypovolemia IV order

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S-127 Dysrhythmias (cont)	Asystole Delete:
	NaHCO3 order
S-129 Envenomation Injuries	Reviewed without changes
S-130	BLS
Environmental	Change:
Exposure	Heat Stroke ice pack locations to: inguinal and axillary regions
S-131	ALS
Hemodialysis	Change:
	Move heading "Fluid overload with rales" above Suspected Hyperkalemia
S-132	
Near Drowning/	Deviews devitte out about as
Diving Incidents	Reviewed without changes
S-133 OB Emergencies	Reviewed without changes
S-134	BLS
Poisoning/Overdose	Change:
3 , 2, 12, 2, 2, 5	Wording for skin exposure to: Remove clothes. Flush with copious water.
	Brush off dry chemicals then flush with copious amounts of water
	Add:
	 To note at bottom: For scene safety, consider Haz Mat activation as needed
	ALS
	Change:
	 Narcan order for symptomatic ?opioid OD in opioid dependent pain management patients from BHO to SO
	Delete:
	Reference to PVC's in Tricyclic OD with cardiac effects definition
S-135	Change:
Pre-Existing Medical	Removal of dermal medications (other than NTG) from BHPO to BHO
Interventions	A1 0
S-136	ALS Change:
Respiratory Distress	Change: ■ MR NTG q3-5" <u>SO</u>
	Lasix MR dose to <u>SO</u>
	Wording for Epinephrine administration MR orders to: MR x2 q10" BHO
	Note at bottom of protocol to read: If any patient has taken a sexual
	enhancement medication such as Viagra, Cialis, Levitra within 48 hours, NTG
	is contraindicated.
S-137	
Sexual Assault	Reviewed without changes
S-138	BLS
Shock	Change:
	Trendelenberg to "Shock position"
	ALS Change:
	Shock: Normovolemia IV order from IV wide-open <u>SO</u> to: IV 500 ml fluid bolus
	Silock. Normovolerna iv order from iv wide-open <u>so</u> to. Iv soo mi fidid bolds <u>SO</u> . MR to maintain systolic BP <u>></u> 90 <u>SO</u>
	Dopamine as above

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S-139	ALS	
Trauma	Change:	
	Fluid Bolus BP to maintain BP > 90	
	 Crush injury orders to: Crush injury with extended entrapment ≥ 2 hours of extremity or torso: IV 1000 ml fluid bolus SO when extremity released. Note at bottom of protocol remove phrase, the Level I adult designated trauma facility 	
S-140		
Triage, Multiple	Reviewed without changes.	
Patient Incident		
S-141	ALS	
Pain Management	Add:	
	 Indications for MS <u>BHPO</u> 	
S-150	Change:	
Nerve Agent	Title of protocol to Nerve Agent	
Treatment	Add:	
	 To top of protocol: Only prehospital personnel who have completed County of San Diego approved training specific to the use of Atropine and 2 PAM CI Autoinjectors are authorized to utilize this protocol. 	

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SUMMARY OF CHANGES TO PEDIATRIC ALS/BLS TREATMENT PROTOCOLS FOR JULY 1, 2005

	DEDIATRIC PROTOCOLO
	PEDIATRIC PROTOCOLS
Changes that affect	ALS
all pediatric	Change:
protocols	Definition of when to use adult medication dosages for pediatric patients
	from \geq 50 kg to \geq 37 kg
	 IV fluid bolus for systolic BP ≥ [70 + (2x age)] SO MR to maintain systolic
	BP <u>></u> [70 + (2x age)] <u>SO</u>
	Delete:
	Phrase "total of 3 does" from Epinephrine orders throughout protocols
S-160	
Airway Obstruction	Reviewed without changes
S-161	ALS
Altered Neuro	Opiod OD
Function (Non-	Change:
Traumatic)	Narcan titrating in opioid dependent pain management patients from BHO
	to <u>SO</u>
	Hypoglycemia Change:
	Change:
	 Description to: Symptomatic patient unresponsive to oral glucose agents Add:
	 Description to MR Dextrose order: If patient remains symptomatic and BS remains <75 mg/dl (infant <60 mg/dl) MR SO
	Delete:
	Symptomatic unknown diabetic unresponsive to oral glucose agents from
	protocol
	Phrase "or unobtainable" from "If no IV" order for Glucagon
	Seizures
	Delete:
	Prolonged focal seizures without respiratory compromise section from
	bottom of protocol
S-162	ALS
Allergic Reaction	Anaphylaxis
	Change:
	 Repeat IV/IO fluid bolus from BHO to SO
	Add:
	 Time/frequency interval (q3-5" x 2) to repeat Epinephrine BHO
	BP parameter to fluid bolus
S-163	ALS
Dysrhythmias	Change:
	 IV order to read: IV/IO fluid bolus per drug chart with clear lungs <u>SO</u>. MR to
	maintain systolic BP ≥ [70 + (2x age)] <u>SO</u>
	<u>SVT</u>
	Move phrase "if no sinus pause" from between first and second dose of
	Adenosine to after second dose of Adenosine.

Page 2 of 3 S-163 VF/Pulseless VT Protocol **Dysrhythmias (cont)** Add: "Cardiac arrest with no monitor available" to heading "If monitor available" above Lidocaine orders Change: ETAD Epinephrine MR dose from MR q5" BHO to: MR x2 in 3-5" SO MR a3-5" BHO **Pulseless Electrical Activity** Change: ETAD Epinephrine MR dose from MR q5" BHO to: MR x2 in 3-5" SO MR q3-5" BHO Delete: ? Hypovolemia IV order Asystole Change: ETAD Epinephrine MR dose from MR q5" BHO to: MR x2 in 3-5" SO MR q3-5" BHO S-164 **Envenomation** Reviewed without changes S165 **BLS** Poisoning/Overdose Change: Wording for skin exposure to: Remove clothes. Flush with copious water. Brush off dry chemicals then flush with copious amounts of water **ALS** Change: Narcan for symptomatic ?opioid OD in opioid dependent pain management patients order from BHO to SO Add To note at bottom: For scene safety, consider Haz Mat activation as needed Delete: Reference to PVC's in Tricyclic OD with cardiac effects definition S-166 BLS **Newborn Deliveries** Add: To documentation: if placenta is delivered, time of delivery. Change: Under "If HR remains <60 bpm after 30 seconds of ventilation, Epinephrine IV and ET MR order from MR q3-5" BHO to: MR x2 q3-5" SO MR q3-5" BHO S-167 **Respiratory Distress with Stridor** Respiratory Add: **Distress** Epinephrine nebulizer treatment: MR x1 SO S-168 Change: Shock Protocol from Shock: Hypovolemia and Normovolemia section to: Non cardiogenic Shock: IV/IO fluid bolus per drug chart SO. MR to maintain BP> [70 + (2x age)] SO if lungs clear Add: Cardiogenic Shock: IV/IO fluid bolus per drug chart SO. MR x1 SO to maintain BP> [70 + (2x age)] if lungs clear

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S-169	Crush Injury
Trauma	Change:
	 Orders to: Crush injury with extended entrapment ≥ 2 hours of extremity or
	torso: IV fluid bolus per drug chart when extremity released BHO
	NaHCO₃ drug chart IVP BHO
S-170	BLS
Burns	Change chemical burns treatment to read:
	Brush off dry chemicals then flush with copious amounts of water
S-170	ALS
Burns (cont)	Change:
	IV orders from drip rate to fluid bolus, then TKO <u>SO</u>
S-171	
Cardiac Arrest	Protocol merged into S-163 Dysrhythmias
(Unmonitored)	S-171 deleted
S-172	
ALTE	Reviewed without changes
S-173	ALS
Pain Management	Add:
	Indications for MS <u>BHPO</u>

COUNTY OF SAN DIEGO DIVISION OF EMERGENCY MEDICAL SERVICES POLICIES AND PROCEDURES Master List

Policy Designators:	
A	Air Medical
В	EMT-1
D	EMT-D
N	Non Emergency Medical Transport
P	EMT-Paramedic
S	System - applies to all components of EMS system
T	Trauma Care System
L	Automatic External Defibrillator

000 - SYSTEMS

S-001	Emergency Medical Services System Compliance with State Statutes and Regulations
	(7/04)
S-002	Approval of Emergency Medical Services System Standards, Policies and Procedures
	(7/04)
S-003	Program Record Keeping: Training and Certification (1/05)
S-004	Quality Assurance/Quality Improvement for the Prehospital Emergency Medical Services
	System (1/05)
S-005	EMS Medical Director's Advisory Committee (Base Station Physicians' Committee)
	(7/03)
S-006	Prehospital Audit Committee (7/01)
S-007	Transfer Agreements (7/04)
S-008	Interfacility Transfers - Levels of Care (7/02)
S-009	Guidelines for the Prevention of Infectious and Communicable Diseases (7/02)
S-010	Guidelines for Hospitals Requesting Ambulance Diversion (7/02)
S-011	Prehospital Emergency Medical Services Certificated Personnel Affected by Local EMS
	Disciplinary Action (7/04)
S-012	Prehospital Emergency Medical Care Investigative Process (7/04)
S-014	Guidelines for Verification of Organ Donor Status (7/05)
S-015	Medical Audit Committee on Trauma (7/02)
S-016	Release of Patient Information/Confidentiality (7/04)
S-017	Downgrade or Closure of Emergency Services in a Hospital Designated as a Basic
	Emergency Receiving Facility (7/03)
S-018	EMS for Children (EMSC) Advisory Committee (7/02)

100 - TREATMENT GUIDELINES AND PROTOCOLS

SECTION I	
S-100	Introduction (7/05)
S-101	Glossary of Terms (7/05)

S-101 Glossary of Terms (7/05) S-102 List of Abbreviations (7/05)

COUNTY OF SAN DIEGO DIVISION OF EMERGENCY MEDICAL SERVICES POLICIES AND PROCEDURES

Master List

	Master List
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S-103	BLS/ALS Ambulance Inventory (7/05)
P-104	ALS Skills List (7/05)
S-105	Latex-Safe Equipment List (7/05)
D-108	Emergency Medical Technician Defibrillation Automated External Defibrillator (AED)
D 100	and Esophageal Tracheal Airway Device (ETAD) Standing Orders (7/05)
D 100	
D-109	Emergency Medical Technician/Public Safety-Defibrillation Automated External
	Defibrillator (AED) Standing Orders (7/05)
P-110	Adult ALS Standing Orders (7/05)
P-111	Adult Standing Orders for Communications Failure (7/05)
P-112	Pediatric ALS Standing Orders (7/05)
P-113	Pediatric Standing Orders for Communications Failure (7/05)
P-114	Pediatric MICU Inventory (7/05)
P-115	ALS Medication List (7/05)
P-115 (a)	Pediatric Weight Based Dosage Standards (7/05)
P-117	ALS Pediatric Drug Chart (7/05)
1-11/	ALS Tediatic Diug Chait (703)
SECTION III	Adult Treatment Protocols
S-120	Abdominal Pain (Non-Traumatic) (7/05)
S-121	Airway Obstruction (Foreign Body) (7/05)
S-122	Allergic Reaction/Anaphylaxis (7/05)
S-123	Altered Neurologic Function (Non-Traumatic) (7/05)
S-124	Burns (7/05)
S-125	Cardiac Arrest Unmonitored (Non-Traumatic) (Merged with S-127)
S-126	Discomfort/Pain of Suspected Cardiac Origin (7/05)
S-127	Dysrhythmias (7/05)
S-129	Envenomation Injuries (7/05)
S-130	Environmental Exposure (7/05)
S-131	Hemodialysis Patient (7/05)
S-132	Near Drowning/Diving Related Incidents (7/05)
S-133	Obstetrical Emergencies (7/05)
S-134	Poisoning/Overdose (7/05)
S-135	Pre-Existing Medical Interventions (7/05)
S-136	Respiratory Distress (7/05)
S-137	Sexual Assault (7/05)
S-138	Shock (7/05)
S-139	Trauma (7/05)
S-140	Triage, Multiple Patient Incident (7/05)
S-141	Pain Management (7/05)
S-150	Nerve Agent Exposure (7/05)
5-150	Nerve Agent Exposure (1703)
SECTION IV	Pediatric Treatment Protocols
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S-161	Altered Neurologic Function (Non-Traumatic) (7/05)
S-162	ALS/Allergic Reaction (7/05)
S-163	Dysrhythmias (7/05)
S-164	Envenomation Injuries (7/05)
S-165	Poisoning/Overdose (7/05)
S-166	Newborn Deliveries (7/05)
S-167	Respiratory Distress (7/05)
S-168	Shock (Non-Traumatic) (7/05)
S-169	Trauma (7/05)
S-170	Burns (7/05)
S-170 S-171	ALS - Cardiac Arrest (Unmonitored non-traumatic) (Merged with S-163)
S-171 S-172	
	Apparent Life Threatening Event (7/05)
S-173	Pain Management (7/05)

COUNTY OF SAN DIEGO DIVISION OF EMERGENCY MEDICAL SERVICES POLICIES AND PROCEDURES Master List

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A-204	Skills List (7/03)
A-215	Medication List (7/03)
A-217	Pediatric Drug Chart (7/03)
A-220	Abdominal Pain (Non-Traumatic) (7/03)
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A-223	Altered Neurologic Function (Non-Traumatic) (7/03)
A-224	Burns (7/03)
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A-227	Dysrhythmias (7/03)
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A-263	Dysrhythmias (7/03)
A-264	Envenomation Injuries (7/03)
A-265	Poisoning/Overdose (7/03)
A-266	Newborn Deliveries (7/03)
A-267	Respiratory Distress (7/03)
A-268	Shock (non traumatic) (7/03)
A-269	Trauma (7/03)
A-270	Burns (7/03)
A-271	Cardiac Arrest Unmonitored (Non-Traumatic) (7/03)
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COUNTY OF SAN DIEGO DIVISION OF EMERGENCY MEDICAL SERVICES POLICIES AND PROCEDURES

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COUNTY OF SAN DIEGO DIVISION OF EMERGENCY MEDICAL SERVICES POLICIES AND PROCEDURES

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P-701 P-702 T-703 T-705 T-706 T-708 T-710 T-711 T-712 T-713 T-714 T-716 T-717 T-718 T-719 D-720 D-721	EMT-Paramedic Base Hospital Designation (7/05) Dedesignation of an EMT-Paramedic Base Hospital (7/05) Trauma Care Fund (7/02) Trauma Catchment Service Area (7/02) Role of the Pediatric Trauma Center (7/02) Trauma Care Coordination Within the Trauma System (7/02) Designation of a Trauma Center (7/02) De-designation of a Trauma Center (7/02) Trauma Center Bypass (7/02) Resources for Trauma Team Response (7/02) Trauma Service Consultations for the Community (7/02) Trauma Service Health Plan Members (7/02) Trauma Center Injury Prevention Activities (7/02) Public Information & Education on Trauma Systems (7/02) Trauma Provider Marketing and Advertising (7/02) EMT/PS-D Base Hospital Designation (7/05) Quality Assurance for Emergency Medical Technician/Public Safety-Defibrillation (7/05)		
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P-801	Designation of Providers of Advanced Life Support Service (1/05)		
S-803 P-804	Recovery of Prehospital Patient Care Reusable Equipment (7/99) Alternate EMT-Paramedic Service Provider Application/Designation (9/91)		
P-805	Advanced Life Support First Responder Units (7/04)		
P-806	Advanced Life Support First Responder Inventory (1/05)		
P-807	Wildland ALS Kit Inventory (7/05) new		
D-820	Emergency Medical Technician/Public Safety-Defibrillation Service Provider Designation (7/05)		
D-822	Esophageal Tracheal Airway Device Service Provider Designation (7/05)		
S-830	Ambulance Provider's Permit Application Process (7/03)		
S-831	Permit Appeal Process (6/93)		
B-833	BLS Ground Ambulance Vehicle Requirements (7/03)		
S-835	Requirements for Ground Critical Care Transport Services (7/02)		
S-836	Critical Care Transport Unit Inventory (7/02)		
N-840	Non Emergency Transport Provider's Permit Application Process (7/03)		
N-841	Non Emergency Medical Transport Service Requirements (7/03)		
B-850	Basic Life Support Ambulance Service Provider Requirements (7/04)		
A-875	Prehospital EMS Aircraft Classification (7/04)		
A-876	Air Ambulance Dispatch Center Designation/Dispatch of Air Ambulance (7/04)		
A-877	Air Ambulance Service Provider Authorization (7/04)		

SAN DIEGO COUNTY DIVISION OF EMERGENCY MEDICAL SERVICES POLICY/PROCEDURE/PROTOCOL

SUBJECT: EMERGENCY MEDICAL SERVICES SYSTEM COMPLIANCE Date: <u>07/01/04</u>
WITH STATE STATUES AND REGULATIONS

I. Authority: Health and Safety Code, Division 2.5, Section 1797.220.
 II. Purpose: To assure compliance for the emergency medical services (EMS) system with applicable State Statutes and Regulations.
 III. Policy: The County of San Diego's EMS system and all its components shall comply with all State of California Statutes and Regulations regarding emergency medical services.

No. <u>S-001</u>

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Administration

Medical Director

POLICY/PROCEDURE/PROTOCOL

SUBJECT: APPROVAL/IMPLEMENTATION OF EMERGENCY MEDICAL SERVICES SYSTEMS STANDARDS, POLICIES AND PROCEDURES

I. Authority: Health and Safety Code, Division 2.5, Sections 1797.220 and 1798.

II. <u>Purpose</u>: To approve standards, policies, and procedures for the Emergency Medical Services (EMS)

system.

III. Policy:

A. EMS system standards, policies, and procedures shall be approved by the County of San Diego EMS

Medical Director, or the Director of the Health and Human Services Agency, or designee, after

No. S-002

Page: 1 of 1

Date: 07/01/04

review and comment by the Emergency Medical Care Committee (EMCC).

B. All standards, policies, and procedures regarding medical control and medical accountability shall be

approved by the County of San Diego EMS Medical Director, after review and comment by the EMS

Medical Director's Advisory Committee (Base Station Physicians' Committee). This includes but is

not limited to:

1. Treatment and triage protocols;

2. Prehospital patient report;

3. Patient care reporting requirements;

4. Field medical care protocols.

C. Providers shall be notified a minimum of forty-five (45) days prior to implementation of new or

revised policies.

D. It is preferred that implementation of new or revised policies take place annually in July.

Approved:

Administration Medical Director

COUNTY OD SAN DIEGO, EMERGENCY MEDICAL SERVICES

POLICY/PROCEDURE/PROTOCOL

SUBJECT: PROGRAM RECORDKEEPING: TRAINING AND CERTIFICATION

Date: 01/01/2005

No. <u>S-003</u>

Page: 1 of 2

I. Authority: Health and Safety Code, Division 2.5, Sections 1797.204 and 1797.208.

To identify specific records to be maintained by the Emergency Medical Services II. Purpose:

Branch (EMS) regarding EMT-B certification, EMT-ETAD accreditation, PS-D accreditation,

Paramedic accreditation, MICN authorization, AED authorization, and County approved continuing

education (CE) providers and training programs.

III. Policy:

A. County of San Diego, Emergency Medical Services Branch (EMS) shall maintain on its

premises for a minimum of five (5) years, the following records:

1. Approved EMS training program documentation including:

Application form and accompanying materials.

b. Copy of written approval from EMS.

2. A list of current EMS Training Program medical directors, course directors, clinical

coordinators and principal instructors.

3. A list of all prehospital field personnel currently certified/accredited/authorized by the County

of San Diego EMS Medical Director.

4. A list of all field prehospital field personnel whose certificates have been suspended or

revoked.

5. A list of approved CE providers, including approval dates.

B. EMS shall submit annually, in January, to the State Emergency Medical Services Authority, the

following:

1. The names, addresses, and course directors of each approved EMS Training Program.

2. The number of currently certified EMT-Bs, EMT-ETAD's, accredited Paramedics,

Approved:

Pate Humi

COUNTY OD SAN DIEGO, EMERGENCY MEDICAL SERVICES POLICY/PROCEDURE/PROTOCOL

SUBJECT: PROGRAM RECORDKEEPING: TRAINING AND CERTIFICATION

Date: 01/01/2005

No. <u>S-003</u>

Page: 2 of 2

PS-D's and authorized MICNs in San Diego County.

C. The State Emergency Medical Services Authority shall be notified in writing of any changes in

the list of approved training programs as they occur.

D. The State EMS Authority and the applicable EMT-B certifying authority shall be notified in

writing of all reportable actions taken regarding a certificate holder's certificate, according to

regulation.

Approved:

L. Authority: Health and Safety Code, Division 2.5, Sections 1797.204, 1797.220, 1798, 1798.100 and 1798.102.

No. <u>S-004</u>

Page: Page 1 of 2

Date: 01/01/2005

Purpose: To identify primary responsibilities of all participants in the County of San Diego's EMS system for achievement of optimal quality of prehospital care for patients who access the system.

III. Definition(s):

Emergency Medical Services System Quality Improvement Program (EMS QI)

Methods of evaluation that are composed of structure, process, and outcome evaluations that focus on improvement efforts to:

- 1. Identify root causes of problems
- 2. Intervene to reduce or eliminate these causes
- Take steps to correct the problems.
- 4. Recognize excellence in performance and delivery of care.

IV. Policy:

- **A.** The Health and Human Services Agency, Division of Emergency Medical Services (EMS) shall:
 - Develop and implement, in cooperation with other EMS system participants, a systemwide, written EMS QI plan.
 - 2. Review the system EMS QI program annually for appropriateness to the system and revise as needed.
 - 3. Develop, in cooperation with appropriate personnel/agencies, a performance improvement action plan when the EMS QI program identifies a need for improvement.
 - 4. Provide the EMS Authority with an annual update of QI program activities.
- B. EMS Service Providers shall:
 - Develop and implement, in cooperation with other EMS System participants, a providerspecific, written EMS QI plan.
 - Review the provider specific EMS QI program annually for appropriateness to the operation of the of the EMS provider and revise as needed.
 - 3. Participate in the local EMS agency's EMS QI Program that includes making available mutually agreed upon, relevant records for program monitoring and evaluation.
 - Develop in cooperation with appropriate personnel/agencies, a performance improvement action plan when the EMS QI Program identifies a need for improvement.
- **C.** Paramedic Base Hospitals shall

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- Develop and implement, in cooperation with other EMS System participants, a hospitalspecific, written EMS QI program.
- 2. Review the provider specific EMS QI program annually for appropriateness to the operation of the of the base hospital and revise as needed.

Approved:

Pate Meni	and M. W.
Administration	EMS Medical Director

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- 3. Participate in the local EMS agency's EMS QI Program that includes making available mutually agreed upon, relevant records for program monitoring and evaluation.
- 4. Develop in cooperation with appropriate personnel/agencies, a performance improvement action plan when the EMS QI Program identifies a need for improvement.

D. Agreements:

- 1. The County of San Diego, Division of EMS shall maintain agreements with Base Hospitals and EMS service providers requiring, but not limited to,
 - a. compliance with all the provisions listed in the California Code of Regulations, Title XXII, Division 9
 - compliance with all County of San Diego, Division of EMS system policies, procedures and protocols.
 - c. Reporting of significant issues in medical management to the EMS Medical Director.
 - 1. Incidents in which medications or treatments are provided which are outside approved treatment protocols, shall be reported to the EMS QI Program through the Base Hospitals or Provider Agencies in a timely manner. These incidents will also be reported at the Prehospital Audit Committee.

No. S-004

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Date: 01/01/2005

- 2. Actions outside of the scope of prehospital personnel and actions or errors resulting in untoward patient effects, such as errors in the administration of medications, invasive procedures, defibrillation/cardioversion, or other patient treatments, shall be reported to the EMS Medical Director, within 48 hours.
- 2. These agreements shall provide the authority for the EMS Division to:
 - a. Perform announced and unannounced site surveys of Base Hospitals and EMS provider agencies.
 - b. Review patient care records necessary to investigate medical QI issues
- 3. Additionally the Division of EMS shall:
 - Support regional QI committees (not limited to Prehospital Audit Committee, Medical Audit Committee).
 - b. Attend Base Hospital/Agency Meetings.
 - c. Periodically monitor prehospital continuing education offerings
 - d. Perform random audits of prehospital patient records.
 - Develop and implement internal mechanisms to monitor, identify, report and correct, quality issues.
- 4. Reporting of significant issues in medical management to the EMS Medical Director:
 - a. Incidents in which medications or treatments are provided which are outside approved treatment protocols shall be reported to the regional QIP system shall be reported by the Base hospital or Agency personnel in a timely manner, through the Prehospital Audit Committee.
 - Actions that are outside of the scope of practice of prehospital personnel, and actions or errors resulting in actual or potential untoward patient outcomes, shall be reported to the EMS Medical Director within 48 hours.

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Pate Meni	and M. W.
Administration	EMS Medical Director

SAN DIEGO COUNTY DIVISION OF EMERGENCY MEDICAL SERVICES POLICY/PROCEDURE/PROTOCOL

SUBJECT: EMS MEDICAL DIRECTOR'S ADVISORY COMMITTEE Date: 07/01/03

No. S-005

Page: 1 of 2

I. Authority: Health and Safety Code, Division 2.5, Section 1798.

(Base Station Physicians' Committee)

II. Purpose: To designate an advisory committee to provide consultation, medical protocol review, and recommendations regarding prehospital medical care issues to the Medical Director of the San Diego County Emergency Medical Services (EMS) agency.

III. Policy: The San Diego County EMS Medical Director may consult with the San Diego County EMS Medical Director's Advisory Committee on issues concerning prehospital treatment protocols and prehospital medical care delivery in the EMS system.

A. <u>Membership</u> The San Diego County EMS Medical Director's Advisory Committee of the County of San Diego, Division of EMS will have the following members:

- a. All Base Hospital Medical Directors
- b. One member representing Children's Hospital Emergency Department physician staff
- c. One member representing approved paramedic training programs
- d. One member representing County Paramedic Agencies Committee (CPAC)
- e. One member representing the Base Hospital Nurse Coordinators Committee
- f. One member representing the San Diego County Paramedics' Association
- g. All prehospital agency physician Medical Directors
- h. San Diego County EMS Medical Director or designee
- i. EMS Prehospital Coordinator
- B. The responsibilities of the San Diego County EMS Medical Director's Advisory Committee are:
 - 1. To meet as an Advisory Committee on a monthly basis.
 - 2. To develop an agenda in conjunction with the San Diego County EMS Medical Director.
 - 3. To consult on prehospital medical issues.

Approved:

Administration

EMS Medical Director

SAN DIEGO COUNTY DIVISION OF EMERGENCY MEDICAL SERVICES POLICY/PROCEDURE/PROTOCOL

No. <u>S-005</u> Page: <u>2 of 2</u>

SUBJECT: EMS MEDICAL DIRECTOR'S ADVISORY COMMITTEE (Base Station Physicians' Committee)

Date: 07/01/03

- To convene small task forces of Advisory Committee members and others to work with the San Diego
 County EMS Medical Director or designee on specific medical management issues.
- 5. To consult with other medical specialties, or other advisory bodies in the County, as necessary.
- 6. To evaluate written statement(s) from Base Hospital Medical Director(s) questioning the medical effect of an EMS policy.

Approved:

Administration

EMS Medical Director

POLICY/PROCEDURE/PROTOCOL

SUBJECT: PREHOSPITAL AUDIT COMMITTEE

Date: <u>7/1/01</u>

No. S-006

Page: 1 of 4

I. <u>Authority</u>: Division 2.5, Health and Safety Code, Sections 1797.204 and 1798; also Evidence Code, Sections 1040 and

1157.7.

II. Purpose:

1. To establish an advisory committee to the local Emergency Medical Services (EMS) Agency to monitor, evaluate and

report on the quality of prehospital medical care.

2. To promote Countywide standardization of the quality improvement process with emphasis on the educational aspect.

3. To review issues and matters of a system wide nature. It shall not be the function of this committee to become

directly involved in the disciplinary action of any specific individual. The authority for actual disciplinary action

rests with the County EMS Medical Director and/or the State EMS Authority in accordance with Health and Safety

Code, Division 2.5, Section 1798.200.

III. Policy:

A. Scope of Review:

The scope of review to be conducted by the committee may include any patient encountered in the prehospital system

in the County of San Diego. The review will include, but not be limited to:

1. Issues reported to the County (refer to P-409 of San Diego County Division of Emergency Medical Services

Policy/Procedure/Protocol).

2. Variations from Protocols.

3. Deviations from Scope of Practice.

4. Medication errors.

5. Intubation complications.

6. Variations from standards of care.

7. Unusual cases or cases with education potential.

Approved:

Administration

POLICY/PROCEDURE/PROTOCOL

SUBJECT: PREHOSPITAL AUDIT COMMITTEE

Date: 7/1/01

No. S-006

Page: 2 of 4

B. Membership:

Members will be designated according to the following format and changes in elected/appointed members will take

place at the end of the odd calendar year.

1. The Base Hospital Medical Director of each of the County's Base Hospitals.

2. The Base Hospital Nurse Coordinator of each of the County's Base Hospitals.

3. The Medical Director of the Emergency Department at Children's Hospital and Health Center.

4. The prehospital nurse liaison of the Emergency Department at Children=s Hospital and Health Center.

5. The Medical Director of each of the County's approved advanced life support (ALS) agencies.

6. One medical EMS liaison military representative.

7. The Program Director of each of the County's approved EMT-Paramedic training programs.

8. One current paramedic provider agency representative appointed by CPAC.

9. One City of San Diego ALS transporting agency representative.

10. Two paramedics (one public and one private provider) appointed by San Diego County Paramedic Association.

11. One EMT-I.

12. One first responder representative.

13. One emergency medicine resident from each training program (non-voting).

14. County staff.

15. One Trauma Hospital Medical Director representing the Medical Audit Committee (MAC) on Trauma.

C. Attendance:

1. Members will notify the Chairperson of the committee in advance of any scheduled meeting they will be unable

to attend.

2. Resignation from the committee may be submitted, in writing, to the EMS Medical Director, and is effective

Approved:

Administration

POLICY/PROCEDURE/PROTOCOL

SUBJECT: PREHOSPITAL AUDIT COMMITTEE

Date: <u>7/1/01</u>

No. S-006

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upon receipt, unless otherwise specified.

3. At the discretion of the PAC Chairperson and/or County EMS, other invitees may participate in the medical audit

review of cases where their expertise is essential to make appropriate determinations. These invitees may include,

but are not limited to the following:

- paramedic agencies representatives

- law enforcement

- EMT provider

- paramedics

- MICN's

- physicians

- communication/dispatch representatives

D. <u>Election of Officers</u>:

Committee officers shall consist of two co-chairpersons one of which is a physician. Elections will take place during

the last meeting of each calendar year and appointees shall assume office at the first meeting of the new calendar year.

Officers elected shall serve a one year term, and may be re-elected.

E. Voting:

Due to the "advisory" nature of the committee, many issues will require input rather than a vote process. Vote

process issues will be identified as such by the Chairperson. When voting is required, a "simple" majority of the

voting members of the committee need to be present to constitute a quorum.

F. Meetings:

The committee shall meet on a monthly basis or at a frequency as determined to be appropriate by the Chairperson,

but never less frequently than bimonthly.

Approved:

Administration

POLICY/PROCEDURE/PROTOCOL

SUBJECT: PREHOSPITAL AUDIT COMMITTEE

Date: 7/1/01

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G. Minutes:

Minutes will be kept by the EMS Secretary or designee and distributed to the members at each meeting. Due to the

confidentiality of the committee, documents will be collected by the EMS staff at the close of each meeting and no

copies may be made or processed by members of the committee.

H. Confidentiality:

1. All proceedings, documents and discussions of the Prehospital Audit Committee are confidential and are covered

under Sections 1040, 1157.5 and 1157.7 of the Evidence Code of the State of California. The prohibition

relating to the discovery of testimony provided to the committee shall be applicable to all proceedings and

records of this committee, which is one established by a local government agency as a professional standards

review organization which is organized in a manner which makes available professional competence to monitor,

evaluate and report on the necessity, quality and level of specialty health services, including but not limited to

prehospital care services. Guests may be invited to discuss specific cases and issues in order to assist the

committee in making final case or issue determinations. Guests may only be present for the portions of the

meeting about which they have been requested to review or testify.

2. All members shall sign a confidentiality agreement not to divulge or discuss information that would have been

obtained solely through Prehospital Audit Committee membership. Prior to the invited guests participating in the

meeting, the Chairperson is responsible for explaining, and obtaining, a signed confidentiality agreement for

invited guest(s).

Approved:

Steen Jacs

Administration

POLICY/PROCEDURE/PROTOCOL

SUBJECT: TRANSFER AGREEMENTS

Date: <u>07/01/04</u>

Page: 1 of 2

No.

S-007

I. Authority: California Health & Safety Code Section 1798.172.

II. Purpose: To ensure that all patients requesting emergency services from hospitals in San

Diego County receive such evaluation and care as may be required. Furthermore, that all

interfacility transfers of patients are accomplished with due consideration for the patients'

health and safety.

III. Policy:

A. All acute care hospitals in San Diego County with basic or comprehensive

emergency departments shall comply with all applicable statutes and regulations

regarding the medical screening, examination, evaluation, and transfer of patients that

present to that hospital's emergency department.

B. All acute care hospitals shall comply with all applicable statutes and regulations

regarding implementation of agreements to ensure that patients with an emergency

medical condition who present at that facility, and that facility is unable to

accommodate that patient's specific condition, are transferred to a facility with

capabilities specific to that patient's need.

1. Hospitals shall develop the mechanisms or agreements necessary to ensure that

patients requiring specialty services are appropriately transferred when that

hospital is unable to provide that specialty service.

2. Hospitals shall ensure the appropriateness and safety of patients during transfers

by implementing policies and protocols which address the following:

proved	

SAN DIEGO COUNTY DIVISION OF EMERGENCY MEDICAL SERVICES POLICY/PROCEDURE/PROTOCOL

Page: <u>2 of 2</u>

Date: <u>07/01/04</u>

No.

<u>S-007</u>

SUBJECT: TRANSFER AGREEMENTS

- a. Type of patient.
- b. Initial patient care treatment.
- c. Requirements and standards for interhospital care.
- d. Logistics for transfer, evaluation, and monitoring the patient.

pproved:			
	Swen Joxes	2N_s	
	Administration	Medical Director	

POLICY/PROCEDURE/PROTOCOL

SUBJECT: INTERFACILITY TRANSFERS LEVEL OF CARE

Date: <u>07/01/02</u>

No. S-008

Page 1 of 3

I. <u>Authority</u>: California Health & Safety Code 1798.172.

II. Purpose: To provide guidelines for ambulance transport of patients between acute care hospitals.

III. Policy:

A. A patient whose emergency medical condition has not been stabilized should not be transferred from

a hospital which is capable of providing the required care.

B. Unstable patients shall be transferred only when the reason for the transfer is to medically

facilitate the patient's care. The transport of unstable patients must have the concurrence of both

the transferring and receiving physicians that the transfer is appropriate.

C. It is the responsibility of the transferring physician, in consultation with the receiving physician, to

determine the appropriate mode of transportation and the appropriate medical personnel (EMT-I,

EMT-P, RN, Physician, etc.) to provide care during transport.

D. Medical personnel providing interfacility transport shall have the capabilities and skills reasonably

necessary to provide for the specific needs of the patient during the transport.

E. Prehospital personnel involved in the interfacility transportation of patients shall adhere to

pertinent County and State policies, procedures and protocols pertaining to the scope of practice

of prehospital personnel.

F. Hospitals with basic or comprehensive emergency departments shall comply with all applicable

statutes and regulations regarding the medical screening examination, evaluation, and transfer of

patients that present to that hospital's emergency department.

G. The levels of ambulance services available for the interfacility transport of patients include:

1. <u>Basic Life Support Ambulance</u>

a. The ambulance is staffed with at least two Emergency Medical Technician-I's.

Approved:

Xwen Jacs
Administration

M. L. Celu Ma EMS Medical Director

POLICY/PROCEDURE/PROTOCOL

SUBJECT: INTERFACILITY TRANSFERS LEVEL OF CARE

Date: <u>07/01/02</u>

No. <u>S-008</u>

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b. The patient is anticipated to require no more than basic life support skills during the

transport.

c. Patient care may not exceed the EMT-I Scope of Practice.

d. The patient must be considered "stable" prior to the transport.

e. If the patient's condition deteriorates during the transport, the ambulance shall

immediately proceed to the closest facility with a licensed emergency department.

2. <u>Critical Care Transport</u> - (including air medical ambulances)

a. The ambulance is staffed with clinical personnel (R.N., Respiratory Therapist,

Physician, etc.) appropriate to the requirements of the patient as determined by the

transferring physician in consultation with the receiving physician.

b. Unstable patients and those requiring clinical skills beyond those of EMT-I's shall be

transported via critical care transport.

c. When nursing personnel are utilized during the transport, written orders from the

transferring physician or other responsible physician covering medical and nursing

activities shall accompany the patient.

3. EMT-Paramedic Ambulance

a. EMT-Paramedic/9-1-1 system personnel may be used to transport patients ONLY as a

last resort when alternative forms of transportation are unavailable, or when the delay in

obtaining alternative transport would pose an imminent threat to the patient's health and

safety.

b. Hospital personnel accessing the emergency medical services (EMS) system for such

transports shall note that, by accessing the EMS system, they may seriously deplete the

Approved:

Swen Jakes

Administration

M. L. Och Ma EMS Medical Director

POLICY/PROCEDURE/PROTOCOL

SUBJECT: INTERFACILITY TRANSFERS LEVEL OF CARE

Date: <u>07/01/02</u>

No. S-008

Page <u>3 of 3</u>

EMS resources of their local community.

c. In such situations, EMT-Paramedic/9-1-1 system personnel shall be given as thorough

and complete a patient report as is possible by sending hospital staff, and will transport

the patient IMMEDIATELY.

d. Paramedics/9-1-1 system personnel should NOT wait at the sending hospital for the

completion of medical procedures or the copying of medical records, x-rays, etc. In

general, they will not be expected to wait longer than 10 minutes while a patient is

being prepared for transport by the sending facility. After 10 minutes, they may notify

their dispatcher and may return to service.

e. Interfacility transfers utilizing EMT-Paramedic personnel shall remain under Base

Hospital (not sending hospital) medical direction and control. EMT-Paramedics will

operate within their scope of practice and in accordance with all other County policies

and procedures during interfacility transfers.

f. The Prehospital Audit Committee (PAC) will review significant events and/or trends

when EMT-Paramedic/9-1-1 system personnel have been utilized for interfacility

transfers to ensure that 9-1-1 system personnel are being utilized appropriately. Issues

identified by PAC will be referred to the EMS Division for further action.

Approved:

Mwen Jakes

Administration

M. L. Culu Ma
EMS Medical Director

POLICY/PROCEDURE/PROTOCOL

GUIDELINES FOR THE PREVENTION OF INFECTIOUS AND

COMMUNICABLE DISEASES

I. Authority: California Health & Safety Code Chapter 3, Article 5, Section 1797.186, 1797.188 and 1797.189.

II. <u>Purpose:</u> To reduce the risk of exposure to infectious and communicable diseases to prehospital personnel

and to patients.

III. Policy:

SUBJECT:

A. All prehospital agencies (including first responder agencies, EMT-1 provider agencies, EMT-P provider

agencies, EMT-1 and EMT-P training agencies, Base Hospitals, and aeromedical providers) shall develop

No. <u>S-009</u>

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Date: 07/01/02

and implement comprehensive policies and procedures that are in compliance with the guidelines and

requirements outlined by the Centers for Disease Control and the California Occupational Safety & Health

Administration regarding "universal precautions" and the protection of personnel and patients from

exposure to blood borne and other infectious diseases.

B. Prehospital provider agencies shall develop and implement policies regarding the prompt reporting and

follow-up of accidental exposures to infectious diseases by appropriate medical personnel.

Approved:

Administration

POLICY/PROCEDURE/PROTOCOL

SUBJECT: GUIDELINES FOR HOSPITALS REQUESTING AMBULANCE DIVERSION

Date: 07/01/02

Page: 1 of 3

I. <u>Authority</u>: California Health and Safety Code, Division 2.5, Section 1797.222 and California

Code of Regulations, Title 13, Section 1105c: "In the absence of decisive factors to the contrary,

ambulance drivers shall transport emergency patients to the most accessible emergency facility

equipped, staffed, and prepared to administer care appropriate to the needs of the patient."

II. <u>Purpose</u>:

A. To transport emergency patients to the most accessible medical facility which is staffed,

equipped, and prepared to administer emergency care appropriate to the needs and

requests of the patient.

B. To provide a mechanism for a receiving hospital to request diversion of patients from its

emergency department when it has been determined that the hospital is not staffed,

equipped, and/or prepared to care for additional patients.

III. Policy:

A. <u>Diversion Categories</u>

It shall be the responsibility of the satellite hospitals to keep their Base Hospital(s)

informed of their status. Satellite hospitals may request diversion, however, the final

destination decision shall be made by the Base Hospital MICN/BHMD after

consideration of all pertinent factors (i.e. status of area hospitals, ETA's, patient acuity

and condition). A hospital may request diversion for the following reasons:

1. <u>Emergency Department Saturation</u> – Hospital's emergency department

resources are fully committed and are not available for additional incoming

ambulance patients.

2. <u>Neuro/CT Scan Unavailability</u> - Hospital is unable to provide appropriate care

due to non-functioning CT-Scan and/or unavailability of a neurosurgeon. (Only

for patients exhibiting possible neurological problems.)

Approved:

Stiven Jack
Administration

M. L. Och Wa
EMS Medical Director

POLICY/PROCEDURE/PROTOCOL

SUBJECT: GUIDELINES FOR HOSPITALS REQUESTING AMBULANCE DIVERSION

Date: 07/01/02

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3. **Internal Disaster** – Hospital cannot receive any patients because of a physical

plant breakdown (e.g. fire, bomb threat, power outage, etc.)

B. In the event of anticipated prolonged diversion, notification shall be made to the County

of San Diego, Division of Emergency Medical Services.

C. Units dispatched as BLS and/or downgraded to BLS will contact the anticipated patient

destination. If that destination is unable to accept patients due to diversion status, the

transporting crew will contact the a Base Hospital to determine destination and to relay

patient information.

D. Base Hospital direction of Mobile Intensive Care Units (MICU's).

> 1. Base Hospitals will attempt to honor diversion requests provided that:

> > a. The involved MICU estimates that it can reach an "alternate" facility

> > > within a reasonable time.

b. Patients are not perceived as exhibiting uncontrollable life threatening

problems in the field (e.g. unmanageable airway, uncontrolled non-

traumatic hemorrhage, or non-traumatic full arrest) or any other

condition that warrants immediate physician intervention. (Patients

meeting trauma criteria shall be transported according to Trauma

Policies Protocols and Policy (See S-139 B, S-169, T460).

2. If all area receiving hospitals are "requesting diversions" due to emergency

department saturation, the "diversion requests" status may not be honored and

the patient will be transported to the most accessible emergency medical facility

within that area. Reasonable consideration should be given to limit transport

time to no greater than 20 minutes.

Approved:

Xwen Janes

M. L. Celu Ma

POLICY/PROCEDURE/PROTOCOL Page: 3 of 3

SUBJECT: GUIDELINES FOR HOSPITALS REQUESTING AMBULANCE DIVERSION

Date: 07/01/02 3. MICN's and prehospital personnel will make best efforts to ensure ambulance patients will be transported to their (patient/family) requested facility.

- 4. Any exceptions from this policy will be made by Base Hospital Physician Order only.
- E. Health and Human Services Agency, Division of Emergency Medical Services staff and/or designee may monitor and/or perform unannounced site visits to hospitals to ensure compliance with these guidelines.
- F. Issues of noncompliance should be reported to the Division of Emergency Medical Services.

Approved:

Swen Jacs
Administration

M. L. Och M EMS Medical Director

POLICY/PROCEDURE/PROTOCOL

Date: 07/01/04 SUBJECT: PREHOSPITAL EMERGENCY MEDICAL CARE SERVICES CERTIFICATED PERSONNEL AFFECTED BY LOCAL EMS DISCIPLINARY ACTION

No. S-011

Page: 1 of 3

I. **Authority:** Health and Safety Code, Division 2.5, Section 1798.200 and 1798.204.

II. **Purpose:** To identify the prehospital Emergency Medical Services Personnel certified under provisions of

Division 2.5 who are subject to local EMS Disciplinary Actions, and the grounds for such action.

Ш. **Policy:**

A. The classification of prehospital emergency medical services personnel certified under provisions of

the California Code of Regulations, Title 22, Division 9, Chapter 6 include:

1. Emergency Medical Technician-Basic (EMT-B).

Emergency Medical Technician-II (EMT-II).

3. Emergency Medical Technician-Paramedic.

B. Negative certification actions taken under the above provisions are limited to consideration of the

prehospital emergency care certificate(s) held, or applied for, pursuant to Division 2.5 of the Health

and Safety Code and do not apply to any other license or certification which is not subject to the

provisions of Division 2.5.

C. If the disciplinary action is taken against the prehospital care certificate of a person who holds a related

certificate or license, the agency, which issued that other certificate or license, should be notified in

writing of the disciplinary action taken and the reasons for that action.

D. The EMS Medical Director for the County of San Diego may take appropriate action according to these

policies and procedures, against the certificate of any prehospital emergency care person certified

pursuant to Division 2.5 of the Health and Safety Code, for which any of the following conditions is

true:

1. The certificate was issued by the EMS Medical Director; or

The certificate holder utilizes or has utilized the certificate or the skills authorized by the certificate

within the County of San Diego.

Approved:

Administration	Medical Director	
Swen Jaxes	&M_s	

No. <u>S-011</u> Page: <u>2 of 3</u> Date: 07/01/04

SUBJECT: PREHOSPITAL EMERGENCY MEDICAL CARE SERVICES CERTIFICATED PERSONNEL AFFECTED BY LOCAL EMS DISCIPLINARY ACTION

E. If the EMS Medical Director initiates an investigation of, or takes action which affects a prehospital emergency medical care certificate, which either was issued by another certifying authority or was issued to a certificate holder who utilized the prehospital skills authorized by the certificate within the jurisdiction of another local EMS Agency, the certifying authority and/or the other local EMS Agency shall be notified in writing of the initiation of the investigation, the findings of the investigation, and any

action taken as a result of the investigation.

F. Disciplinary proceedings against a multiple certificate holder may apply to one certificate, or more than

one, at the discretion of the EMS Medical Director, according to the circumstances of the case.

G. An evaluation and determination by the EMS Medical Director that any of the following actions have

occurred constitutes evidence of a threat to the public health and safety and is cause for initiating a

formal investigation and possible disciplinary action:

1. Fraud in the procurement of any certification issued under Part 1 of Division 2.5 of the Health and

Safety Code.

2. Gross negligence.

3. Repeated negligent acts.

4. Incompetence.

5. The commission of any fraudulent, dishonest or corrupt act, which is substantially related to the

qualifications, functions, and duties of prehospital personnel.

6. Conviction of any crime, which is substantially related to the qualifications, functions and duties

of prehospital personnel. The record of conviction or certified copy thereof shall be conclusive

evidence of such conviction.

7. Violating or attempting to violate directly or indirectly, or assisting or abetting the violation of, or

conspiring to violate any provision of Part 1 of Division 2.5 of the Health and Safety Code or of

Approved:

Administration	Medical Director
Swen Jours	2N_~

No. <u>S-011</u> Page: <u>3 of 3</u> Date: <u>07/01/04</u>

SUBJECT: PREHOSPITAL EMERGENCY MEDICAL CARE SERVICES CERTIFICATED PERSONNEL AFFECTED BY LOCAL EMS DISCIPLINARY ACTION

the regulations adopted by the Authority pertaining to prehospital personnel.

8. Violating or attempting to violate any Federal or State statute or regulation, which regulates

narcotics, dangerous drugs or controlled substances.

9. Addiction to the excessive use of, or the misuse of alcoholic beverages, narcotics, dangerous

drugs or controlled substances.

10. Functioning outside of the supervision of medical control in the field care system operating at the

local level, except as authorized by any other license or certification.

11. Demonstration of irrational behavior or occurrence of physical disability to the extent that a

reasonable and prudent person would have reasonable cause to believe that the ability to perform

the duties normally expected may be impaired.

12. Unprofessional Conduct Exhibited by any of the following:

a. The mistreatment or physical abuse of any patient resulting from force in excess of what a

reasonable and prudent person trained and acting in a similar capacity while engaged in

the performance of his or her duties would use if confronted with a similar circumstance.

b. The failure to maintain confidentiality of patient medical information, except as disclosure

is otherwise permitted or required by law in Sections 56-56.6, inclusive of the Civil Code.

c. The commission of any sexually related offense specified under Section 290 of the Penal

Code.

H. Proceedings for probation, suspension, revocation or denial of a certificate or a denial of a

renewal of a certificate, under this division shall be conducted in accordance with the guidelines

established by the Emergency Medical Services Authority.

Approved:		
Swen Jaxes	&M_s	
Administration	Medical Director	

Page: 1 of 10 Date: 07/01/04

S-012

SUBJECT: PREHOSPITAL EMERGENCY MEDICAL CARE INVESTIGATIVE PROCESS

Authority: Health and Safety Code, Division 2.5, Sections 1798.200, 1798.201, 1798.202 and 1798.204.

II. Purpose: To provide an equitable and flexible process whereby the EMS Medical Director may, in a timely

manner, take disciplinary action as is necessary to maintain medical control of prehospital EMS personnel and

protect the public health and safety; while at the same time ensure that the due process rights of the holder of/or

applicant for an EMS prehospital certificate are protected.

Ш. **Policy:**

A. The EMS Medical Director should take great care during all phases of the disciplinary process to ensure

that the due process rights of an individual are protected.

1. Ensure that the individual receives prompt notice of all proceedings of the disciplinary process.

2. Ensure that the individual is informed of his/her right to counsel or other representation during

the disciplinary process.

B. Any information regarding the individual which is considered in the disciplinary process shall be

available to the individual and/or his/her legal counsel or designated representative for review. The

local EMS agency should take adequate precaution to ensure that the information which would violate

another person's legal right to confidentiality is not published.

IV. **Procedure:**

A. All allegation(s) regarding the performance of EMT-B or Paramedic shall be submitted to the EMS Medical

Director, Health and Human Services Agency, Division of Emergency Medical Services, in writing. Such

written complaint(s)/allegation(s) should include:

The date and time of the occurrence, or as closely approximated as possible.

The nature of the occurrence or concern.

The names of witnesses or persons who can corroborate the facts.

A factual statement describing exactly what transpired.

B. The EMS Medical Director, or designee, shall review and evaluate the information relative to the potential

Approved: Swen Jours **Medical Director** Administration

POLICY/PROCEDURE/PROTOCOL

threat to the public health and safety and determine action warranted.

SUBJECT: PREHOSPITAL EMERGENCY MEDICAL CARE INVESTIGATIVE PROCESS

C. If the EMS Medical Director determines there is reason to believe that disciplinary action may be necessary

against a Paramedic, all documentary evidence collected shall be forwarded to the Director of the EMS

S-012

Page: 2 of 10 Date: 07/01/04

Authority with a recommendation for further investigation or discipline of the licenseholder. The

recommendation and accompanying evidence shall be deemed in the nature of an investigative

communication and protected by Section 6254 of the Government Code.

1. The EMS Medical Director may temporarily suspend, prior to hearing, after consultation with the

relevant employer, any EMT-Paramedic license upon a determination that:

a. The licensee has engaged in acts or omissions that constitute grounds for revocation of the

license; and,

b. Permitting the licensee to continue to engage in the licensed activity would present an imminent

threat to public health or safety.

2. The local EMS agency shall notify the licensee that his/her paramedic license is suspended and shall

identify the reason(s) for the suspension.

3. Within three (3) working days of the initiation of the suspension, the local EMS agency shall transmit

to the authority, via fax or overnight mail, all documentary evidence collected relative to the decision to

temporarily suspend.

D. If the EMS Medical Director determines there is reason to believe that disciplinary action may be necessary

against an EMT-Basic, a formal investigation shall be initiated.

1. The EMT-Basic certificate holder and his/her relevant employer(s) shall be notified in writing, by

registered mail, of the investigation. The written notice to the certificate holder and his/her relevant

employer(s) shall include:

a. A statement of the allegation(s) against the certificate holder.

b. A statement that explains the allegation(s), if found to be true, constitutes a threat to public health

Approved:

Swen Jours	& M_ is
Administration	Medical Director

SUBJECT: PREHOSPITAL EMERGENCY MEDICAL CARE INVESTIGATIVE PROCESS

and safety, and is/are cause for the EMS Medical Director to take action pursuant to Section

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1798.200 of the Health and Safety Code.

An explanation of the possible actions, which may be taken if the allegations are found to be true.

A date by which the information must be submitted.

A request for a written response to the allegation(s) from the certificate holder.

A statement that the certificate holder may submit in writing any information that she/he feels is

pertinent to the investigation, including statements from other individuals, etc.

g. An explanation of the investigative review panel (IRP) process, if suspension, revocation, denial

or denial of renewal of a certificate may occur.

2. The certificate holder and relevant employer(s) shall be allowed to submit pertinent information, in

writing, to the EMS Medical Director.

3. The certificate holder and his/her employer shall be allowed a maximum of five (5) working days to

respond to the request for information, unless extenuating circumstances preclude response within that

time and the EMS Medical Director determines that an extension of the response time would not

jeopardize the public health and safety.

4. The EMS Medical Director or designee shall designate a person or persons to assure that any and all

relevant information pertaining to the allegation(s) and to the performance of the certificate holder in

regard to the use of prehospital emergency medical skills is gathered.

5. Determination of Appropriate Action:

a. The EMS Medical Director shall determine what action, relative to the individual's certificate(s) if

any, should be taken as a result of the findings of the investigation.

b. The nature of the disciplinary action should be proportionate to and related to the severity of the

risk to the public health and safety caused by the actions of the holder of, or applicant for, a

prehospital EMS certificate.

-	Administration	Medical Director	
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Approved:			

SUBJECT: PREHOSPITAL EMERGENCY MEDICAL CARE INVESTIGATIVE PROCESS

Upon determining the action to be taken relative to a individual's certificate, the EMS Medical

Director shall complete and place in the record, a statement certifying the decision made by the

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Medical Director and the date the decision was made. The statement shall include the signature of

the EMS Medical Director, the date the decision was made, and the location where signed.

d. The types of action which could be taken include the following:

(1) No disciplinary action: if the allegation(s) are found to be untrue, unsubstantiated or

unrelated to the ability of the certificate holder to perform his/her duties as a prehospital EMS

provider, the EMS Medical Director should take no disciplinary action.

(2) Documentation/Monitoring: If substantiation of the allegation(s) is insufficient to justify

disciplinary action, but evidence is available which indicates that the allegation(s) may be well

founded, the EMS Medical Director may decide to have the behavior of the certificate holder

in the field monitored to provide further documentation. If this is done the certificate holder

shall be informed that his/her conduct in the field will be monitored for a specified period of

time, which will be set by the EMS Medical Director. Monitoring may include, but not be

limited to concurrent audits by a designee of the EMS Medical Director, such as the

certificate holder's employer or medical supervisor.

(3) Counseling: If the EMS Medical Director determines that the infraction or performance

deficiency is minor and the EMS Medical Director thinks that the certificate holder's conduct

can be improved by counseling, she/he may choose to have the certificate holder counseled.

The counseling session(s) shall include:

(a) A review of the findings of the investigation.

(b) Specific issues of concern.

(c) Improvements expected of the certificate holder, and time frame in which they shall be

demonstrated.

Approved:

Swen Joues

Administration

SUBJECT: PREHOSPITAL EMERGENCY MEDICAL CARE INVESTIGATIVE PROCESS

(d) Manner(s) in which such improvement may be achieved.

(e) The evaluation method that will be used to assess the certificate holder's improvement.

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(f) The EMS Medical Director may designate another person, such as the certificate holder's

employer or medical supervisor to provide the specified counseling.

(4) Reprimand: May be determined by the EMS Medical Director if the facts of the case indicate:

(a) A minor infraction that is unlikely to reoccur.

(b) Is not representative of the certificate holder's usual behavior; and,

(c) Is not likely to continue to jeopardize the public health and safety.

(5) Probation: Shall be determined appropriate by the EMS Medical Director if the seriousness of

the infraction or performance deficiency indicates a need to monitor the individual's conduct.

(a) The term of the probation will be for a specific period of time, not to exceed one (1) year.

(b) Probation may be chosen in addition to specific remedial counseling/training.

(c) The individual's performance shall be reviewed periodically during the probationary

period.

(6) Suspension: May be determined by the EMS Medical Director if in the professional opinion

of the EMS Medical Director, an infraction or performance deficiency indicates a need to

temporarily remove the certificate holder from the practice of prehospital emergency medical

care to protect public health and safety. Suspension may, but need not be immediately

effective.

(a) The certificate holder and his/her relevant employer(s) shall be notified in writing prior to

or concurrent with the initiation of suspension.

(b) Suspension of the individual's certificate would be for a specific period of time.

(c) The EMS Medical Director based on the facts of the case shall determine the term of

suspension and any conditions for reinstatement, such as satisfactory completion of

Approved: Swen Jones

Medical Director Administration

SUBJECT: PREHOSPITAL EMERGENCY MEDICAL CARE INVESTIGATIVE PROCESS

remedial training.

(d) If the suspension period will run past the expiration date of the individual's certificate, the

EMS Medical Director may, at the end of the suspension period, either allow the

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individual to renew the certificate by the usual process or require the individual to

demonstrate that the individual sufficiently retains the necessary knowledge or skills. If

the individual cannot demonstrate sufficient retention of the necessary knowledge or

skills, as determined by the EMS Medical Director, the individual might be required either

to complete specific retraining requirements or to reapply for the certificate as if the

individual was a new applicant.

(e) If the affected individual's certificate is being immediately suspended pursuant to this

provision and the facts of the matter have not yet been reviewed by an IRP, the

certificate holder may, within fifteen (15) calendar days of the date that written

notification of the suspension is received, request, in writing, that a special IRP be

convened to review the facts which necessitate an immediate suspension. Upon receipt

of such a request, the EMS Medical Director shall convene a special IRP to review the

facts, which necessitate an immediate suspension of the individual's certificate prior to

completion of the investigatory process and determination of final action by the EMS

Medical Director.

The special IRP review of the facts necessitating the immediate suspension shall be

completed and the certificate holder notified of the IRP's recommendation and the

EMS Medical Director's decision regarding continuation of the suspension, within

twenty-one (21) calendar days of receipt of the request for the special IRP.

The EMS Medical Director shall present evidence for review by the special IRP that

he feels, in his expert opinion, demonstrates the necessity for the immediate

Approved:

Swen Jones Administration Medical Director

SUBJECT: PREHOSPITAL EMERGENCY MEDICAL CARE INVESTIGATIVE PROCESS

suspension of the affected individual's certificate prior to completion of the

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investigatory process. The EMS Medical Director need not present all of the

information gathered at that point in the investigation if he feels, in his professional

opinion that disclosure at that time of other information gathered could jeopardize

completion of the investigation or of a related investigation, except that any

information which contradicts the need for the immediate suspension may not be

withheld.

iii. The EMS Medical Director need not complete a special IRP review of the facts

necessitating the immediate suspension if a full IRP review of all the facts of the

case can be completed, and the certificate holder notified of the final decision of the

EMS Medical Director within twenty-one (21) calendar days after request for the

special IRP is received.

(7) Revocation, Denial or Denial of Renewal: If the infraction or performance deficiency is such

that it is likely that the holder of, or applicant for, a certificate should not practice because of

the risk to public health and safety, the EMS Medical Director may revoke, deny or deny the

renewal of a certificate.

The EMS Medical Director may refuse to accept or process an application for a prehospital

emergency medical care certificate from any person whose prehospital emergency medical care

certificate or authorization has been revoked, denied, or the renewal denied for any of the reasons

listed in Section 1798.200 of Division 2.5, unless the person submits documentation which, in the

opinion of the EMS Medical Director, demonstrates that the threat to the public health and safety,

which necessitated the denial or revocation, is no longer applicable.

If the EMS Medical Director determines that the infraction or performance deficiency is of a minor

nature relative to the potential threat to the public health and safety, the EMS Medical Director

Approved:

Swen Joues

Administration

SUBJECT: PREHOSPITAL EMERGENCY MEDICAL CARE INVESTIGATIVE PROCESS

may institute disciplinary action without calling a review panel. If so, notice from the EMS

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Medical Director shall inform the individual that he may request an IRP review, as described

herein.

h. If the EMS Medical Director determines that the infraction or performance deficiency may require

the suspension, revocation, denial of renewal of a certificate, the EMS Medical Director may

convene an IRP to assist in establishing the facts and report its findings.

(1) The IRP shall consist of at least three (3) persons knowledgeable in the provision of

prehospital emergency care and local EMS System policies and procedures. One (1) member

of the IRP shall be mutually agreed upon by the certificate holder and the EMS Medical

Director, if the certificate holder so requests. The IRP shall not include the EMS Medical

Director, any local EMS Staff, or anyone who submitted allegations against the certificate

holder or who was directly involved in any incident which is included in the investigation.

(2) Within three (3) days of the selection of the IRP, the individual and the individual's

employer shall be notified by registered mail of the purpose of the IRP, its membership, and

the certificate holder's right to approve one member, the date and time that it will convene

and the certificate holder's right to designate another person to accompany him/her to the

IRP to provide him/her with advice and support. Both the subject and the EMS Medical

Director shall mutually agree upon, any change in the time or date of convening the IRP in

writing.

(3) The IRP shall assess all the available information on the matter in order to establish the facts

of the case. The certificate holder shall be given the opportunity to be present during the

presentation of any testimony before the IRP, allowed to be accompanied by legal counsel or

another representative of his/her choosing to provide him/her with advice and support,

allowed to testify before the IRP, allowed to call his/her own witnesses and allowed to

Approved:

Administration	Medical Director	
Swen Jaxes	SC/L_s	

SUBJECT: PREHOSPITAL EMERGENCY MEDICAL CARE INVESTIGATIVE PROCESS question witnesses called by the EMS Medical Director.

(4) The IRP shall make a written report of its findings and its recommendation to the EMS

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Medical Director (by the date specified by the EMS Medical Director).

(5) The IRP review shall be completed, the findings of the IRP reported to the EMS Medical

Director and the certificate holder notified of the IRP's recommendations and the EMS

Medical Director's final decision within forty-five (45) calendar days of receipt of the

request .for the IRP.

E. Notification of the certificate holder and his/her relevant employer of the action prescribed by the EMS

Medical Director shall take place in writing within ten (10) calendar days after making the final determination

and shall include the following information:

The specific allegation(s), which resulted in the investigation.

A summary of the findings of the investigation, including the findings and recommendations of the

IRP, if one was convened;

3. The action(s) to be taken, the effective date and the duration of the action(s) including counseling,

probation or suspension.

4. Which certificate(s) the action applies to in cases of multiple certificate holders.

5. If no IRP was convened, and the individual's certificate has been suspended, revoked, denied or the

renewal denied, an explanation of the individual's rights to request an IRP review of the action

including, if the individual certificate has been suspended, the right to request a special IRP to review

the facts, which necessitated the immediate suspension.

6. A statement that the certificate holder must report the action to any other local EMS agencies in whose

jurisdiction she/he uses the certificate; and,

7. If the certificate holder has been placed on probation, a statement that, during the probationary period,

the certificate holder must report the probation if she/he applies for certification or authorization from

Approved:

No. <u>S-012</u> Page: <u>10 of 10</u> Date: <u>07/01/04</u>

SUBJECT: PREHOSPITAL EMERGENCY MEDICAL CARE INVESTIGATIVE PROCESS

another local EMS agency;

8. If the certificate has been suspended, a statement that the certificate holder must report that

suspension if she/he applies for any certification or authorization from another local agency during the

period of suspension; or

9. If the certificate has been revoked, denied, or the renewal denied, a statement that she/he must report

that action if she/he applies for any certification or authorization from another local EMS agency, and

that his/her application may not be accepted or processed unless she/he presents documentation

which, in the opinion of the Medical Director of the local EMS agency, demonstrates that the threat to

public health and safety which necessitated the denial or revocation is no longer applicable.

Approved:			
	Sher Joxes	2 Miles	
	Administration	Medical Director	

SAN DIEGO COUNTY EMERGENCY MEDICAL SERVICES

POLICY/PROCEDURE/PROTOCOL

SUBJECT: GUIDELINES FOR VERIFICATION OF ORGAN DONOR STATUS

I. Authority: Health & Safety Code, Section 7152.5(b).

II. <u>Purpose</u>: To establish guidelines for emergency medical services (EMS) field

personnel to search for verification of organ donor status on adult patients for

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whom death appears imminent.

III. <u>Definitions</u>:

A. Reasonable Search: A brief attempt by EMS field personnel to locate an organ

donor document of gift, or other information that may identify a patient as a

potential organ donor or one who has refused to make an anatomical gift.

B. <u>Imminent Death</u>: A condition wherein illness or injuries are of such severity that, in

the opinion of EMS personnel, death is likely to occur before the patient arrives at

the receiving hospital. For purposes of this policy, this definition does not include

any conscious patient regardless of the severity of illness or injury.

IV. Policy:

A. When EMS field personnel encounter an unconscious adult patient for whom it

appears death is imminent they shall attempt a "reasonable search" of the patient's

belongings to determine if the individual carries an organ donor document of gift or

other information indicating the patient's status as an organ donor.

B. Treatment and transport of the patient remains the highest priority for field

personnel. This search shall not interfere with patient care or transport.

C. Field personnel shall notify the receiving hospital personnel if organ donor

document of gift or other information is discovered. Advanced life support units

shall notify the base hospital in addition to the receiving hospital personnel.

Approved:

Pate Mani

Administration

SAN DIEGO COUNTY EMERGENCY MEDICAL SERVICES

POLICY/PROCEDURE/PROTOCOL

SUBJECT: GUIDELINES FOR VERIFICATION OF ORGAN DONOR STATUS

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Date: 07/01/05

D. Any organ donor document of gift or other information that is discovered shall be

transported to the receiving hospital with the patient, unless an investigating law

enforcement officer requests it. In the event that no transport is made, any organ

document of gift or other information shall remain with the patient.

E. Field personnel shall briefly note the results of the search on the EMS Prehospital

Patient Record.

F. No search is to be made by EMS personnel after the patient has expired.

G. If a member of the patient's immediate family objects to the search for an organ

donor document of gift or other information at the scene, their response to a

question about the patient's organ donation wishes shall satisfy the requirement.

Approved:		

Administration	Medical Director
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SUBJECT: MEDICAL AUDIT COMMITTEE ON TRAUMA

I. <u>Authority:</u> Division 2.5, Health and Safety Code, Sections 1797.204 and 1798; and Evidence Code, Sections 1040 and 1157.7.

II. <u>Purpose:</u> To establish the scope, membership and functions of an advisory committee to the local Emergency Medical Services (EMS) agency. This committee shall meet to monitor and evaluate the medical care of identified patients with traumatic injury.

III. Policy

- A. The scope of the committee shall include, but not be limited to:
 - 1. Review of trauma deaths in the County
 - 2. Evaluation of trauma care
 - Provision of input to the local EMS agency in the development,
 implementation and evaluation of medical audit criteria
 - Design and monitoring of corrective action plans for trauma medical care
 - 5. Assistance and participation in research projects
 - Provision of medical care consultation at the request of the County
 of San Diego Division of EMS (County EMS), including on-site
 facilities evaluation by committee members
 - Establishment of subcommittees of outside consultants at the request of County EMS
 - Recommendation of process improvement strategies related to trauma care

B. Membership:

The committee shall be comprised of the following:

- 1. Members:
 - a. Trauma Center Medical Directors from all designated centers

Approved:

Administrator

Medical Director

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SUBJECT: MEDICAL AUDIT COMMITTEE ON TRAUMA

No. <u>S-015</u> Page: <u>2 of 5</u> Date: <u>7/1/2002</u>

- Trauma Nurse Coordinators from all designated Trauma
 Centers
- c. County EMS Trauma System Coordinator/Trauma Quality
 Assurance Specialist
- d. County Trauma System Surgical Consultant
- e. Base Hospital Physician representing the Prehospital Audit

 Committee (PAC)
- f. Neurosurgeon appointed by the Academy of Neurosurgeons
- g. Anesthesiologist appointed by the Anesthesia Association
- h. Orthopedic Surgeon
- Emergency Physician not affiliated with a trauma center,
 appointed by San Diego Emergency Physicians Society
- j. County EMS Medical Director
- 2. Ad Hoc Members that may participate:
 - a. Trauma Base Hospital Medical Directors
 - b. Medical Director Air Medical Services
 - Designated Assistant Trauma Medical Directors or Trauma
 Surgeon staff of trauma centers
 - d. Approved physicians enrolled in Trauma fellowships
 - e. Trauma Center Intensivists
 - f. Assistant Trauma Coordinators
 - g. Physicians from non-trauma facilities who are presenting cases
 - h. President of the Medical Society

Approved:

Sher Jakes

SUBJECT: MEDICAL AUDIT COMMITTEE ON TRAUMA

Page: 3 of 5
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i. General surgeon appointed by the Society of General Surgeons

- j. County EMS Administrator/appropriate Division staff
- Managed care physician representative appointed by County
 EMS.

C. Attendance:

- 1. Members should notify County EMS staff (285-6429) in advance of any scheduled meeting they would be unable to attend. Attendance at these meetings for the Trauma Medical Directors and Trauma Nurse Coordinators or their designees is mandatory. The Trauma Medical Directors and the Trauma Nurse Coordinators should use their best efforts to attend 90% of the scheduled MAC meetings annually. After three (3) consecutive absences in a calendar year, an appointed member may be replaced on the Committee.
- Resignations from the committee shall be submitted, in writing to County EMS.
- Invitees may participate in the medical review of specified cases
 where their expertise is requested. All requests for invitees must be
 approved by County EMS in advance of the scheduled meeting.
- Invitees not participating in the medical review of specified cases must be approved by County EMS and all Trauma Medical Directors.

D. <u>Voting</u>:

Due to the "advisory" nature of the committee, many issues require consensus rather than a vote process. Vote process issues will be identified

Approved:

Swen Jack
Administrator

when a conflict of interest exists.

SUBJECT: MEDICAL AUDIT COMMITTEE ON TRAUMA

Page: 4 of 5
Date: 7/1/2002

as such by the Chairperson. When voting is required, the majority of the voting members of the committee need to be present. Voting members may include Trauma Medical Directors, Trauma Nurse Coordinators and the appropriate physician specialist. Members may not participate in voting

E. <u>Meetings</u>:

The committee shall meet at least six (6) times per year at times arranged by County EMS/MAC.

F. Committee Documentation:

Minutes will be kept by County EMS staff and distributed to the members at each meeting. Due to the confidentiality of the committee, confidential committee documents will be collected by County EMS staff at the close of each meeting and no copies may be made or possessed by members of the Committee. All official correspondence and communication generated by the Medical Audit Committee will be approved by County EMS staff and sent on San Diego County letterhead.

Approved:

Sher Jakes

SUBJECT: MEDICAL AUDIT COMMITTEE ON TRAUMA

G. <u>Confidentiality</u>:

All proceedings, documents and discussions of the Medical Audit

Committee are confidential and are covered under Sections 1040 of the

Government Code and 1157.7 of the Evidence Code of the State of

California. The prohibition relating to discovery of testimony provided to
the Committee shall be applicable to all proceedings and records of this

Committee, which is one established by a local government agency to
monitor, evaluate and report on the necessity, quality and level of specialty
health services, including, but not limited to, trauma care services. Issues
which require prehospital medical/system input may be sent to the
confidential Prehospital Audit Committee.

Approved:

Administrator

Hwen Jokes

Medical Director

Page: <u>5 of 5</u>
Date: <u>7/1/2002</u>

POLICY/PROCEDURE/PROTOCOL

SUBJECT: PATIENT INFORMATION/CONFIDENTIALITY

Confidentiality of Medical Information Act (Civil Code, Section 56 et. seg.) Title

I. **Authority:**

22, Division 9, Sections 100075, 100159, Health Insurance Portability and

Page: 1 of 3

Date: 07/01/04

Accountability Act. (HIPAA).

II. To describe the conditions and circumstances by which protected health **Purpose:**

information may be released.

III. **Definitions:** Protected Health Information (PHI) – HIPAA regulations define health

information as:

"any information, whether oral or recorded in any form or medium" that

"is created or received by a health care provider, health plan, public health authority,

employer, life insurer, school or university, or health care clearinghouse" and,

"relates to the past, present, or future physical or mental health or condition of an individual;

the provision of health care to an individual, or the past, present, or future payment for the

provision of health care to an individual."

IV. **Policy**

All prehospital provider agencies shall have policies in place regarding the disclosure of PHI A.

of EMS patients.

B. Prehospital provider agencies shall designate a Public Information Officer (PIO) or other

designated person(s) authorized to release operational or general information, as authorized

by State and Federal law.

Approved:			

Swen Jones Administration **Medical Director**

POLICY/PROCEDURE/PROTOCOL

SUBJECT: PATIENT INFORMATION/CONFIDENTIALITY

Date: 07/01/04

Page: 2 of 3

No.

S-016

- PHI may not be disclosed by prehospital personnel, except as follows:
 - 1. To other care givers to whom the patient care is turned over, for continuity of patient care (including the prehospital patient record).
 - 2. To the County of San Diego, Base Hospital or provider agency quality improvement program (including the provider agency supervisory personnel).
 - 3. To the patient or legal guardian.
 - 4. To law enforcement officers in the course of their investigation under the following circumstances:
 - As required by law (e.g. court orders, court-ordered warrants, subpoenas a. and administrative requests).
 - b. To identify or locate a suspect, fugitive, material witness or missing person.
 - c. In response to a law enforcement official's request for information about a victim or suspected victim of a crime.
 - d. To alert law enforcement of a person's death if the covered entity suspects that criminal activity caused the death.
 - e. When a covered entity believes that PHI is evidence of a crime that has occurred on the premises.

Approved:			
	W/ On -	50\ A	
	Swen Jacs Administration	Medical Director	

No. S-016 POLICY/PROCEDURE/PROTOCOL Page: 3 of 3

SUBJECT: PATIENT INFORMATION/CONFIDENTIALITY

f. In a medical emergency and it is necessary to inform law enforcement about the commission and nature of a crime, the location of the crime or crime victims, and the perpetrator of the crime.

Date: 07/01/04

- 5. To the provider agency's billing department, as needed for billing purposes.
- 6. In response to a properly noticed subpoena, court order or other legally authorized disclosure.
- C. Any prehospital records (recorded or written), used for training or continuing education purposes, must be edited to remove identifying patient/incident information.

Gloven Joxes	2 M ~	
Administration	Medical Director	

Approved:

SUBJECT: PATIENT INFORMATION/CONFIDENTIALITY Date: <u>07/01/04</u>

2. To the County of San Diego Division of Emergency Medical Services, Base Hospital or provider agency quality improvement program (including the agency supervisory personnel).

No. S-016

Page: 2 of 2

- 3. To the patient or legal guardian.
- 4. To law enforcement officers in the course of their investigation.
- 5. To the agency's billing department, as needed for billing purposes.
- 6. In response to a subpoena, or other legally authorized disclosure.
- D. Any prehospital records (recorded or written), used for training or continuing education purposes, must be edited to remove identifying patient/incident information.

Swen Jaxes	XVV_05
Administration	Medical Director

Approved:

SUBJECT: DOWNGRADE OR CLOSURE OF EMERGENCY SERVICES
IN A HOSPITAL DESIGNATED AS A BASIC EMERGENCY RECEIVING FACILITY

Date: <u>07/01/03</u>

No: S-017

Page: 1 of 2

L Authority: Health and Safety Code, Division 2.5, Section 1300.

II. Purpose: To identify the procedures instituted prior to closure or downgrade of emergency services

provided by a licensed acute care hospital with a permit to provide basic or comprehensive emergency

services.

III. A. Hospitals planning to close or downgrade their capacity to provide emergency services shall notify

the Division of Emergency Medical Services (EMS) of their intent at least 90 days prior to the scheduled

change, in accordance with applicable regulations. This notification shall provide the Division of EMS

with the following information:

1. Rationale for downgrade or closure.

2. Proposed timeline for downgrade or closure.

3. Annual patient volume seen in the emergency department.

4. Any other services provided by the hospital that may additionally be impacted by the emergency

department closure/downgrade.

5. Plans for community notification including the scheduling of mandated public hearings.

B. Upon notification that a hospital intends to close or downgrade the level of emergency services

offered pursuant to its permit to operate a basic or comprehensive emergency facility, the San

Diego County Division of Emergency Medical Services shall conduct an evaluation of the potential

impact to prehospital emergency care providers and upon the remaining emergency care facilities in

the geographic area. The impact evaluation and a public hearing shall occur within 60 days of

receiving notification of the intent of closure.

This impact evaluation shall include the following:

Approved:

Administration

Gwen Jaxes

SUBJECT: DOWNGRADE OR CLOSURE OF EMERGENCY SERVICES
IN A HOSPITAL DESIGNATED AS A BASIC EMERGENCY RECEIVING FACILITY

Date: <u>07/01/03</u>

No: S-017

Page: 2 of 2

1. **Geographical Data** regarding facility isolation, service area population density, travel time and distance to next closest facility, number and type of other available emergency services, and

availability of prehospital resources.

2. Base Hospital Designation information to include the number of calls received, number of

patients received, and impact on patients, prehospital personnel and other Base Hospitals.

3. Trauma Care impact based on the number of patients received, and impact on remaining

hospitals, trauma centers and trauma patients.

4. Specialty Services Provided that are not readily available at other community facilities and the

next nearest availability of those services such as burn center, neurosurgery, pediatric, critical

care, etc.

5. Patient Volume on an annual basis including both 91-1 transports, transfers and walk-in

patients.

6. **Public Notification** of the intended downgrade or closure has occurred with a minimum of one

public hearing in addition to advertisement to the community via publications, education

sessions or media forums.

C. In addition to performing the impact evaluation, the Division of Emergency Medical Services

shall:

1. Notify and consult with all prehospital health care providers and hospitals in the geographical

area regarding the potential closure or change.

2. Notify all planning or zoning authorities prior to completing an impact evaluation.

3. Provide, in writing, a copy of the Division's impact evaluation to the California EMS

Authority and the California State Department of Health Services within three (3) days of the

completion of the impact evaluation.

Approved:

Administration

Swen Jaxes

SUBJECT: EMS FOR CHILDREN (EMSC) ADVISORY COMMITTEE Date: <u>07/19/02</u>

No. S-018

Page: 1 of 2

- I. <u>Authority:</u> Health and Safety Code, Division 2.5, Section 1798 and 1797.204 and Chapter 12, 1799.
- II. <u>Purpose:</u> To establish the scope, membership and functions of an advisory committee to the Division of Emergency Medical Services (EMS). This committee will provide consultation, medical protocol review, evaluate and make recommendations regarding medical care, access to care, medical preparedness, community preparedness and illness and injury prevention regarding children to the Medical Director of the Division of Emergency Medical Services (EMS). ¹
- **III.** Policy: The EMS Medical Director may consult with the EMSC Advisory Committee on issues concerning pediatric system, protocol, education, medical care delivery, community preparedness and prevention within County of San Diego.
 - A. Membership: The EMS-C Advisory/Steering Committee will have the following membership:
 - 1. Base Station Physicians' Committee representative;
 - 2. Hospital Administration / Association Representative;
 - 3. One physician member representing Children's Hospital Emergency Dept. physician staff;
 - 4. One physician member representing the Medical Society Emergency Physicians or a Non-Trauma Center, non-Base Hospital Emergency Department physician;
 - 5. One physician member representing AAP or COPEM;
 - 6. One physician member representing U.S. Naval Hospital;
 - 7. One physician member representing private practice pediatrics;
 - 8. One member representing Community Injury Prevention;
 - 9. One member representing approved paramedic training programs;
 - 10. One member representing the San Diego County Paramedic Association;
 - 11. One member representing the Base Hospital Nurse Coordinators Committee;
 - 12. One member representing Children's Hospital Emergency Department nursing staff;
 - 13. One member representing the pediatric Trauma Center; and,

Administration

14. One member representing community, i.e. Parents-Teachers Association.

¹ EMSC Project, Final Report, CA EMSA #196, 1994
EMSC Five Year Plan, Goals & Objectives 2001-5, CA EMSA

Approved:

Moven Jack

**Moven J

SUBJECT: EMS FOR CHILDREN (EMSC) ADVISORY COMMITTEE Date: <u>07/19/02</u>

No. S-018

Page: 2 of 2

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- B. The responsibilities of the EMS-C Advisory Committee are:
 - 1. To develop a system EMS-C plan listing goals, priorities and time line.
 - To convene small task forces of the Advisory Committee and others to work with the EMS
 Medical Director or designee on specific medical management issues and community
 initiatives.
 - 3. To consult with other medical specialties, community representatives or other advisory bodies in the County of San Diego, as necessary.
 - 4. To provide steering recommendations for the implementation of EMSC related projects.
 - To develop recommended policy/guidelines/protocols/procedures concerning medical care delivery for children, community preparedness, access to medical care and illness and injury prevention.
 - 6. To develop programs providing public education concerning EMSC and related projects.
 - 7. To participate in the implementation of approved policy/guidelines/programs/ protocols/ procedures concerning access to and medical care delivery for children, community preparedness and illness and injury prevention as requested by EMS.

C. Attendance:

- 1. Members should notify Division of EMS staff (619-285-6429) in advance of any scheduled meeting they would be unable to attend.
- 2. An appointed member may be replaced after two consecutive absences.

D. Voting:

- 1. Due to the "advisory" nature of the committee, many issues require consensus rather than a vote process. The Chairman will identify issues requiring a vote and the vote process.
- 2. When voting is required, a simple majority of committee members needs to be present. Members may not participate in voting when a conflict of interest exists.

E. Meetings:

The committee shall meet at least four (4) times per year at times arranged by the Division of EMS.

proved:		
	Swen Jacs	&M_s
	Administration	EMS Medical Director

SUBJECT: TREATMENT PROTOCOL -- INTRODUCTION

Date: 7/1/05

No. S-100

Page: 1 of 2

INTRODUCTION

These Protocols define the basic and advanced life support treatment and disposition standards for San Diego County.

- These treatments are listed in sequential order for each condition. Adherence is recommended.
 All skills follow the criteria in the Skills List.
- All treatments may be performed by the EMT-B (BLS treatments) and/or paramedic without an order EXCEPT for those stating "Base Hospital Order (BHO)" or "Base Hospital Physician Order (BHPO)".

All treatments requiring an order are at the discretion of the Base Hospital providing medical direction. Standing orders may be implemented at the discretion of the field EMT-B/paramedic and may be continued following the initial notification.

Once a complete patient report is initiated:

- All BH orders supersede any standing orders except defibrillation, precordial thump and intubation.
- ALL subsequent medication orders MUST be from that Base (S-415).
- 3. <u>BHPO (Base Hospital Physician Order)</u>: BHPOs may be relayed by the MICN. Physician must be in direct voice contact for communication with another physician on scene.
- 4. Abbreviations and definition of terms are attached.
- 5. All medications ordered are to be administered as described UNLESS there is a contraindication, allergy or change in condition.
- 6. Cardioversion when listed in the protocols is always synchronized.
- 7. Personal protective equipment must be used on all patient contacts per provider agency policy (S-009).
- 8. PEDIATRIC SPECIAL CONSIDERATIONS:
 - a. A pediatric patient is defined as appearing to be <15 yo.

- b. Pediatric cardioversion is CONTRAINDICATED whenever the defibrillator unit is unable to deliver <5w/s/kg or equivalent biphasic.
- c. Medications are determined by use of length based resuscitation tape; refer to the pediatric drug cart, P-117. Children \geq 37 kg. receive adult dosages regardless of age.
- 9. In a multiple patient incident, the paramedic team may split per standing orders.

 Base hospital contact should be made to confirm destination prior to leaving scene or ASAP enroute.

 If the paramedic team is split, each paramedic may still perform ALS duties.

Approved:	
	e M

SAN DIEGO COUNTY EMERGENCY MEDICAL SERVICES

POLICY/PROCEDURE/PROTOCOL

SUBJECT: TREATMENT PROTOCOL -- INTRODUCTION Date: 7/1/05

RESOURCES AND REFERENCES USED:

<u>Guidelines 2000 for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care: International</u> Consensus on Science, Circulation, 2000; 102 (Suppl I).

Advanced Cardiac Life Support, American Heart Association, Richard O. Cummins, Editor, Dallas, Texas, 2002

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Barkin, Roger, Pediatric Emergency Medicine: Concepts and Clinical Practice, CV Mosby, St. Louis, MO, 1992

Broselow Pediatric Emergency Tape, Vital Signs, Inc., 1998.

Erlich, Frank, Heldrich, Fred J, Tepas III, J.J., Pediatric Emergency Medicine, Aspen Publ., MD, 1987

Mosby's Paramedic Textbook, Sanders, McKenna, Mosby Yearbook, St Louis, MO, revised 2nd edition 2002

Nichols, David G., Yaster, Myron, Lappe, Dorothy, Buck, James; Golden Hour: The Handbook of Advanced Pediatric Life Support, Mosby Yearbook, St. Louis, 1991

<u>Pediatric Advanced Life Support</u>, American Heart Association and American Academy of Pediatrics, Mary Fran Hazinski, Editor, Dallas, Texas, 2002.

<u>Pediatric Education for Prehospital Professionals,</u> American Academy of Pediatrics, Jones and Bartlett, MA, 2000.

Pre-Hospital Burn Life Support, American Burn Association, 1994

Approved:

SUBJECT: TREATMENT PROTOCOL -- GLOSSARY OF TERMS Date: 7/1/05

GLOSSARY OF TERMS

No. S-101

Page: 1 of 2

<u>Apparent Life Threatening Event (ALTE):</u> an episode involving an infant less than 12 months of age which includes one or more of the following:

- 1) Apnea
- 2) Color change (cyanosis, pallor)
- 3) Marked change in muscle tone (limpness or stiffness)
- 4) Unresponsiveness

Definitive therapy: Administration of a fluid bolus or medications.

<u>End Tidal CO₂ Detection Device</u>: Disposable end tidal CO₂ detection devices are approved for prehospital use in San Diego County for patients \geq 15 kg and for patients < 15 kg. Non-disposable end tidal CO₂ detection-monitoring devices are optional and may be utilized in place of disposable devices.

Esophageal Tracheal Airway Device (ETAD): The "Combitube" is the only such airway approved for prehospital use in San Diego County.

<u>IV/IO</u>: Intravenous/Intraosseous fluids are routinely Normal Saline.

Minor: A person under the age of 18 and who is not emancipated.

Opioid: Any derivative, natural or synthetic, of opium or morphine or any substance that has their effects on opioid receptors (e.g. analgesia, somnolence, respiratory depression).

Opioid Dependent Pain Management Patient: An individual who is taking prescribed opioids for chronic pain management, particularly those with opioid infusion devices.

Opioid Overdose, Symptomatic: Decreased level of consciousness or respiratory depression.

Nebulizer: O2 powered delivery system for administration of Normal Saline or medications.

Pediatric Patient: Children appearing to be <15 years and appearing to weigh less than 37 kg (81lbs.).

Newborn: up to 30 days

Infant: one month to one year of age.

<u>SD BREATHE:</u> Acronym for the steps to be performed in the assessment and documentation of endotracheal intubation attempts:

Size, Depth, Breath Sounds, Rise & Fall of Chest, Esophageal Detection Device, Absence of Abdominal Sounds, Tube Misting, Hospital Verification, End Tidal CO₂ Detection Device.

"Shock" is defined by the following criteria:

Patient's age:

1. ≥ 15 years:

Systolic BP <80 mmHg OR

Systolic BP <90 mmHg <u>AND</u> exhibiting any of the following signs of inadequate perfusion:

- a. altered mental status (confusion, agitation)
- b. tachycardia
- c. pallor
- d. diaphoresis

Approved:

SUBJECT: TREATMENT PROTOCOL -- GLOSSARY OF TERMS Date: 7/1/05

2. <15 yrs:

Systolic BP < [70 + (2 x age)] **AND**

exhibiting any of the following signs of inadequate perfusion:

- a. altered mental status (confusion, agitation)
- b. tachycardia (<5yrs ≥180bpm; ≥5yrs ≥160bpm)
- c. pallor
- d. diaphoresis
- e. comparison (difference) of peripheral vs. central pulses (PALS/PEPP).

<u>Sinus pause:</u> A brief break in tachydysrhythmia that immediately reverts back. During the pause the actual underlying dysrhythmia may be evident. Adenosine is unlikely to convert this dysrhythmia.

No. <u>S-101</u>

Page: 2 of 2

<u>Unconsciousness</u>: No purposeful response to stimulation.

Unstable (adult): Systolic BP<90 and chest pain, dyspnea or altered LOC.

Ammuniadi		
Approved:		
	S. L.	
	EMS Medical Director	

No. S-102 POLICY/PROCEDURE/PROTOCOL Page: 1 of 2

SUBJECT: TREATMENT PROTOCOL -- ABBREVIATION LIST Date: 7/1/05

SAN DIEGO COUNTY TREATMENT PROTOCOL **ABBREVIATION LIST**

AED Automated External Defibrillator

AICD Automatic Implanted Cardiac Defibrillator Advanced Life Support (Paramedic level) ALS

ALTE Apparent Life Threatening Event

Arterio-Venous (fistula) ΑV

BH Base Hospital Base Hospital Order BHO

<u>BHP</u>O Base Hospital Physician Order BLS Basic Life Support (EMT level)

BP **Blood Pressure** BPM Beats Per Minute

BS Blood Sugar (Blood Glucose)

Body Surface Area BSA CaCl₂ Calcium Chloride Chief complaint C/C CO Carbon Monoxide CO₂ Carbon Dioxide

CPR Cardio-Pulmonary Resuscitation

CVA Cerebrovascular Accident

d/c Discontinue dl Deciliter

 D_{25} 25% Dextrose (diluted D₅₀)

50% Dextrose D_{50} Electrocardiogram EKG ET **Endotracheal Tube**

ETAD Esophageal Tracheal Airway Device

GM or Gm Gram Heart Rate HR **ICS** Intercostal space IM Intramuscular (injection) Ю Intraosseous line IV Intravenous line IVP Intravenous Push

J Joule (s) Kg Kilogram Liter

LOC Level of Consciousness or Loss of Consciousness

Maximum max Microgram mcg mEq Milliequivalent Milligram mg Minute min

Approved:

SAN DIEGO COUNTY EMERGENCY MEDICAL SERVICES

No. <u>S-102</u> POLICY/PROCEDURE/PROTOCOL Page: 2 of 2

Date: 7/1/05

SUBJECT: TREATMENT PROTOCOL -- ABBREVIATION LIST

Milliliter(s) ml

MOI Mechanism of injury

May repeat MR Morphine Sulfate MS NaHCO₃ Sodium Bicarbonate NG Nasogastric (tube) Nothing by mouth NPO

Normal Saline (IV solution) NS

NTG Nitroglycerin O_2 Oxygen OD Overdose

PEA Pulseless Electrical Activity

PO Per Os (by mouth)

Pro Re Nata (as often as necessary) prn PVC Premature Ventricular Complex

Every q SL Sublingual

SC Subcutaneous (injection)

Standing Order <u>SO</u> Shortness of Breath SOB

SVT Supraventricular Tachycardia Transient Ischemic Attack TIA

TKO To Keep Open (IV) which is approximately 25-30ml/hr

Ventricular Fibrillation VF Valsalva Maneuver VSM VT Ventricular Tachycardia

Years Old VΟ

? Possible/questionable/suspected

Minutes or Inches

< Less than

Greater than or equal to <u>></u>

Approved:

No. <u>S-103</u> Page: <u>1 of 4</u>

Date: 7/1/05

SUBJECT: BLS/ALS AMBULANCE INVENTORY

I. Authority: Health and Safety Code, Division 2.5, Section 1797.204.

II. <u>Purpose</u>: Identify a minimum standardized inventory on all Basic Life Support and Advanced Life Support

Transport Units.

III. Policy: Essential equipment and supplies are required by California Code of Regulations, Title 13, Section

1103.2(a) 1-2 (for vehicle requirements refer to Policy # B 833). Each Basic Life Support or Advanced Life Support Transporting Unit in San Diego County shall carry as a minimum, the

following:

Basic Life Support Requirements:

	<u>Minimum</u>
Ambulance cot and collapsible stretcher	1 each
Straps to secure the patient to the cot or stretcher	1 set
Ankle and Wrist Restraints	1 set
Linens (Sheets, pillow, pillow case, blanket, towels)	2 sets
Oropharyngeal Airways	2 0010
Adult	2
Pediatric	2
Infant	1
Newborn	1
Pneumatic or rigid splints	4
Bag-valve-mask w/reservoir and clear resuscitation mask	7
Adult	1
Pediatric	1
Infant	1
Oxygen Cylinder w/wall outlet (H or M)	1
Oxygen tubing	1
Oxygen Cylinder - portable (D or E)	2
Oxygen administration mask	2
Adult	4
Pediatric	2
Infant	2
Nasal cannulas (clear plastic) Adult	4
Nasal airways (assorted sizes)	1 set
Nebulizer for use w/sterile H ₂ O or saline	2
Glucose Paste/Tablets	1 tube or 9 tablets
Bandaging supplies	i tube of a tableta
4" sterile bandage compresses	12
3x3 gauze pads	4
2", 3", 4" or 6" roller bandages	6
1", 2" or 3" adhesive tape rolls	2
Bandage shears	1
10"x 30" or larger universal dressing	2
Emesis basin (or disposable bags)	1
Covered waste container	1
Portable suction equipment (30 L/min, 300 mmHg)	1
Suction device - fixed (30 L/min, 300 mmHg)	1
Suction Catheter - Tonsil tip	3
Suction Catheter (6, 8, 10, 12, 14, 18)	1 set
Suction Gameter (0, 0, 10, 12, 14, 10)	1 301

Approved:

M. M.

No. <u>S-103</u> Page: <u>2 of 4</u>

Date: 7/1/05

SUBJECT: BLS/ALS AMBULANCE INVENTORY

	Head Immobilization device	2 each
	Spinal Immobilization devices (1 min. 30", 1 min. 60") with straps**	1 each
	Cervical collars - rigid	i eacii
	Adult	3
	Pediatric	2
	Infant	2
		2
	Traction splint*	4
	Adult or equivalent	1
	Pediatric or equivalent	1
	Blood pressure manometer & cuff	4
	Adult	1
	Pediatric	1
	Infant	1
	Obstetrical Supplies to include:	1 kit
	gloves, umbilical tape or clamps, dressings, head coverings,	
	ID bands, towels, bulb syringe, sterile scissors or scalpel, clean pla	stic bags
	Potable water (1 gallon) or Saline (2 liters)	1
	Bedpan	1
	Urinal	1
	Disposable gloves - non-sterile	1 box
	Disposable gloves - sterile	4 pairs
	Cold packs	2
	Warming packs (not to exceed 110 degrees F)	2
	Sharps container (OSHA approved)	1
	Agency Radio	1
	EMS Radio	1
Op	tional Item:	
	Positive Pressure Breathing Valve, maximum flow 40 Liters/min	

Positive Pressure Breathing Valve, maximum flow 40 Liters/min.

Mark 1 Kit(s) or equivalent

Advanced Life Support Requirements:

All supplies and equipment in Basic Life Support Requirements in addition to the following:

Α.	Airway Adjuncts:	<u>Minimum</u>
	Aspiration based endotracheal tube placement verification devices	2
	End Tidal CO ₂ Detection Devices (<15kg, >15kg) OR	2 each
	Quantitative End Tidal CO ₂ Capnography (optional item)	1
	Endotracheal Tubes: Sizes:	
	2.5, 3.0, 3.5, 4.0, 4.5, 5.0 (uncuffed)	1 each
	5.5 (cuffed or uncuffed)	1
	6, 6.5, 7, 7.5, 8, 8.5, 9 (cuffed)	1 each
	Esophageal Tracheal Double Lumen Airway (Kit) (Combitube):Reg, Sml Adult**	2 each
	ET Adapter (nebulizer)	1 setup
	Feeding Tube - 5, 8 French	1each
	Laryngoscope - Handle	2
	Laryngoscope - Blade:	
	curved and straight sizes 0-4	1each
	curved sizes 3-4	1 each
	Magill Tonsil Forceps small and large	1 each
	Mask - Bag-valve-mask Neonate size	1
	Stylet 6 and 14 French, Adult	1 each

Approved:

#W_w

No. <u>S-103</u> Page: <u>3 of 4</u>

Date: 7/1/05

SUBJECT: BLS/ALS AMBULANCE INVENTORY

D. Marandar Anna (Maritaria a Engineera)			
B. <u>Vascular Access/Monitoring Equipment</u>	<u>Minimum</u>		
Armboard: Long Armboard: Short	2 2		
Blood Glucose Monitoring Device**	1		
IV Administration Sets: Macrodrip	6 3		
Microdrip	2		
Three-Way Stopcock with extension tubing			
IV Tourniquets	4		
Needles: IV Cannula - 14 Gauge	8 8		
IV Cannula - 16 Gauge	o 8		
IV Cannula - 18 Gauge	6		
IV Cannula - 20 Gauge			
IV Cannula - 22 Gauge	4		
IV Cannula - 24 Gauge	4		
IM - 21 Gauge X 1"	6		
IO – Jamshidi-type needle – 18 Gauge	2 2		
IO – Jamshidi-type needle – 15 Gauge	4		
S.C. 25 Gauge X 3/8"			
Syringes: 1 ml, 3 ml, 5 ml, 10 ml, 20 ml	3 each		
C. Monitoring Conductive Gel/Defibrillator pads Defibrillator/ Scope Combination Defibrillator Paddles (4.5 cm, 8.0 cm) or Pads (hands free) Electrodes Electrode Wires	1 tube/2 pkgs 1 1 pair each 1 box 2 sets		
Oxygen Saturation Monitoring Device **	1		
Adult probe Infant/Pediatric	1 1		
Illianivrediatiic	1		
D. <u>Packs</u> Drug Box	1		
Personal Protective Equipment (masks, gloves, gowns, shields)	2 sets		
Trauma Box/Pack	1		
E. Other Equipment			
Broselow Tape Necessaria Intubation Set Up (10, 12 or 14, 18 French 48")	1 1 agab		
Nasogastric Intubation Set-Up (10, 12 or 14, 18 French 48")	1 each		
Pediatric Drug Chart (laminated)	1 1 anab		
Thermometer - Oral, Rectal Water Soluble Lubricant	1 each		
water Soluble EuditCatt	1		

Approved:

Date: 7/1/05

SUBJECT: BLS/ALS AMBULANCE INVENTORY

F.	Communication Items: Communication Failure protocol (laminated) Standing Orders Protocol (laminated)		Minimum 1 1
	G. Replaceable Medications: Adenosine Albuterol ASA, chewable Atropine Sulfate Atropine Sulfate Atrovent Calcium Chloride Charcoal activated (no sorbitol) Dextrose, 50% Diphenhydramine HCL Dopamine HCL Epinephrine Epinephrine Epinephrine Furosemide Glucagon Lidocaine HCL Morphine Sulfate (injectable) Morphine Sulfate (Oral Immediate Release) Naloxone HCL (Narcan) Nitroglycerin Nitroglycerin topical preparation Sodium Bicarbonate Versed (Midazolam)	6 mg/2ml 2.5 mg/3 ml or 0.083% 80 mg each individually wrapped 1 mg/10 ml multidose 0.4 mg/ml 2.5 ml (1 unit dose vial) or 0.02% 1 GM/10 ml 50 GM 25 GM/50 ml 50 mg/1 ml 400 mg 1:1,000 multidose vial 1:1,000 (1 mg/1ml ampule) 1:10,000 (1 mg/10 ml vial) 20 mg/40 mg/100 mg vial 1 ml (1 unit) 100 mg/5 ml (2%) 10 mg/1 ml 10 mg/5 ml 1 mg/1 ml concentration 0.4 mg 2% 50 mEq/50 ml 5mg/1ml concentration	6 vials 6 vials 6 units 3 1 2 1 1 2 2 1 1 6 6 100mg total 1 6 2 3 6 mg total 1 container 1 tube 3 20mg total
	IV Solutions: Normal Saline Normal Saline	1000 ml bag 250 ml bag	4 4
H.	Optional Items: Dopamine 12 Lead EKG Cardiac compression monitor (CPR Plus) Capnograph (quantitative or qualitative) External pacing equipment and supplies Lidocaine 2%Jelly - 5 ml tube Tympanic thermometer Valium Autoinjector (MMST only)	400 mg in 250 ml D5W	

Note: Pediatric required supplies denoted by italics.

- One splint may be used for both adult & pediatric e.g. Sager Splint Unit may remain in service until item replaced or repaired.

Approved:

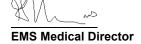
SKILL	INDICATION	STANDING ORDER	CONTRAINDICATION	COMMENTS
Blood sampling Venous/capillary	Obtain blood sample to determine treatment.	Yes	None	Repeat BS not indicated en route if patient is improving
Broselow Tape	Determination of length for calculation of pediatric drug dosages and equipment sizes.	Yes	None	Base dosage calculation on length of child; Refer to pediatric chart for dosages (P-117).
Cardioversion: synchronized	Unstable VT Unconscious SVT Unstable Atrial fibrillation/flutter Unconscious and HR ≥180	Yes	Pediatric: If defibrillator unable to deliver <5 J or biphasic equivalent	In addition to NTG patches, remove chest transderrmal medication patches prior to cardioversion.
	Unstable SVT conscious patient Unstable Atrial Fibrillation/Flutter conscious patient HR ≥180(BHPO)	No		
Defibrillation	VT (pulseless) VF Cardiac arrest, unmonitored	Yes	None	In addition to NTG patches, remove chest transderrmal medication patches prior to defibrillation.



SKILL	INDICATION	STANDING ORDERS	CONTRAINDICATIONS	COMMENTS
Dermal Medication	When route indicated.	Yes*	Profound shock, CPR, Peds	Avoid application to areas that may be used for cardioversion.
ET/ETAD Medication	When ET/ETAD route is indicated	Yes*	None	ET: Dilute adult dose to 10ml & peds dose to 3ml with NS. ETAD: Esophageal placement, via Port #1 (blue). Epinephrine 10mg diluted to 20ml volume. Tracheal placement – Medications same as ET dose via Port #2 (white).
EKG monitoring	Any situation where potential for cardiac dysrhythmia.	Yes	None	Apply monitor before moving patient with chest pain, syncope, or in arrest. Document findings on PPR and leave strip with patient.
12 lead EKG (optional)	Signs and symptoms suggestive of myocardial infarction.	Yes	None	Document findings on the PPR and leave strip with patient.
End tidal CO₂ Detection Device	All intubated patients	Yes	None	Monitor continuously after ET / ETAD insertion May not detect CO2 levels in pulseless rhythms. Use Pedicap in patients <15 kgs.
Esophageal Detection Device-aspiration based	All intubated patients	Yes	Patient <20 kg	Repeat as needed to reconfirm placement. Use for both ET/ETAD.
External Cardiac Pacemaker	Unstable bradycardia with a pulse refractory to Atropine 1 mg	No	None	BHPO Document rate setting, milliamps and capture



SKILL	INDICATION	STANDING ORDER	CONTRAINDICATIONS	COMMENTS
Glucose Monitoring	Symptomatic ?hypoglycemia	Yes	None	Repeat BS not indicated en route if patient is improving
Injection: IM	When IM route indicated	Yes*	None	Usual site: Deltoid in patients ≥3 yo. Vastus lateralis patients <3 yo.
Injection: SC	When SC route indicated.	Yes*	None	Preferred site-fatty tissue of upper arm.
Injection: IVP	When IVP route indicated	Yes*	None	
Injection: Direct IVP	When direct IVP route indicated	Yes*	None	
Intubation- ET/ Stomal	Apnea or ineffective respirations for unconscious patient or decreasing LOC. Newborn deliveries if HR<60 after 30 seconds of ventilation To replace ETAD if: • ventilations inadequate OR • need ET suction OR • need to give ET medications	Yes	? Opioid OD prior to Narcan.	3 attempts per patient <u>SO</u> Additional attempts <u>BHPO</u> Attempt=attempt to pass ET (not including visualizations and suctioning). Document and report SD BREATHE. Reconfirm and report EtCO ₂ and lung sounds after each pt movement. Extubation per BHO. ET Depth Pediatrics: Age in years plus 10. When using uncuffed tube, immobilize spine.
ETAD (Combitube)	Apnea or ineffective respirations for unconscious patient or decreasing LOC.	Yes	Gag reflex present Patient <4' tall. ? Opioid OD prior to Narcan. Ingestion of caustic substances. Hx esophageal disease. Laryngectomy/Stoma	Extubate per BHO. Use Small Adult size tube for pts 4'-5'6" tall and Use Adult size for patients > 5' tall. Report and document SD BREATHE and ventilation port number. Reconfirm and report EtCO2 and lung sounds after each pt movement.



SKILL	INDICATION	STANDING ORDER	CONTRAINDICATION	COMMENTS
Magill Forceps	Airway obstruction from foreign body with decreasing LOC/unconscious	Yes	None	
Nebulizer, oxygen powered	Respiratory distress with: • Bronchospasm • Croup-like cough • Stridor	Yes*	None	Flow rate 4- 6 L/min. via mouthpiece; 6-10 L/min. via mask/ET.
Needle Thoracostomy	Severe respiratory distress with unilateral, absent breath sounds and systolic BP <90 in intubated or positive pressure ventilated patients.	No	None	BHO Use 14g IV catheter Insert catheter into anterior axillary line 4th/5th ICS on involved side (preferred) OR Insert into 2nd/3rd ICS in Mid- Clavicular Line on the involved side. Tape catheter securely to chest wall and leave open to air.
NG	Uncuffed intubations. Gastric distention interfering w/ ventilations	Yes	Severe facial trauma. Known esophageal disease.	
Precordial Thump	Monitored/unmonitored witnessed arrest, initial onset VF/VT	Yes	None	
Prehospital Pain Scale	All patients with a traumatic or painassociated chief complaint	Yes	None	Assess for presence of pain and intensity
Prehospital Stroke Scale	All adult patients with suspected Stroke/CVA	Yes	None	Assess facial droop, arm drift, & speech.



SKILLS	INDICATION	STANDING ORDER	CONTRAINDICATION	COMMENTS
Pulse Oximetry	Assess oxygenation	Yes	None	Obtain room air saturation if possible, prior to O ₂ administration.
Re-Alignment of Fracture	Grossly angulated long bone fracture	Yes	None	Use unidirectional traction. Check for distal pulses prior to realignment and every 15 min. thereafter.
Removal of Impaled Object	Compromised ventilation of patient with impaled object in face/cheek or neck.	Yes	None	
Spinal Immobilization	Spinal pain of ?trauma MOI suggests ?potential spinal injury Uncuffed Intubations	Yes	None	Pregnant patients (>6mo) tilt 30 degree left lateral decubitus. Optional if all of the following are present and documented: Adult Patient 1. awake, oriented to person, place & time 2. no drug/ETOH influence 3. no pain/tenderness of neck or back upon palpation 4. no competing pain 5. cooperative Pediatric Patient N=no altered LOC E=evidence of obvious injury absent C=complete spontaneous ROM without pain K=kinematic (mechanism) negative
Valsalva Maneuver	SVT	Yes	None	Most effective with adequate BP D/C after 5-10 sec if no conversion
VASCULAR ACCESS External jugular	When unable to establish other peripheral IV and IV is needed for definitive therapy ONLY.	Yes	None	Tamponade vein at end of catheter until tubing is securely attached to cannula end.



SKILL	INDICATION	STANDING ORDER	CONTRAINDICATIONS	COMMENTS
Extremity	Whenever IV line is needed or anticipated for definitive therapy.	Yes	None	
Indwelling Devices	Primary access site for patients with indwelling catheters if needed for definitive therapy ONLY	Yes	Devices without external port	Infuse at a rate to support continuous flow and prevent backflow into IV line. Needleless systems may require adaptor. Examples include Groshong, Hickman.
Intraosseous	Fluid/medication administration in acute status pediatric patient < 8 years old when unable to establish other IV.	Yes	Age ≥ 8 years Tibial fracture Vascular Disruption Prior attempt to place in target bone	Splint extremity. Observe carefully for signs of extravasation. Do not infuse into fracture site. Neonate < 28 days old BHO (<1 cm in depth). Do not use spring-loaded IO needles.
Percutaneous Dialysis Catheter Access(e.g. Vascath)	Unable to establish other peripheral IV and IV is needed for definitive therapy ONLY.	Yes	None	Vas Cath contains concentrated dose of Heparin which must be aspirated PRIOR to infusion. Infuse at a rate to support continuous flow and prevent backflow into IV line. Needleless systems may require adaptor.
Shunt/graft - AV (Dialysis)	Unable to establish other peripheral IV and IV is needed for definitive therapy ONLY.	Yes	None	Prior to access, check site for bruits and thrills. Access fistula on venous side (weaker thrill). Inflate BP cuff around IV bag to just above patient's systolic BP to maintain flow of IV. If unsuccessful, hold direct pressure over site for 10" to stop bleeding. Do not apply pressure dressing.

 $^{^{\}star}$ When medication by that route is a \underline{SO} .

SAN DIEGO COUNTY EMERGENCY MEDICAL SERVICES POLICY/PROCEDURE/PROTOCOL

SUBJECT: Latex-Safe Equipment List Date: 7/1/05

No. S-105

Page: 1 of 2

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I. <u>Authority</u>: Health and Safety Code, Division 2.5, Section 1797.204.

II. <u>Purpose</u>: Identify essential equipment that must be available for use with patients identified as latex-sensitive.

III. <u>Policy:</u> Prehospital personnel shall be prepared to manage patients that are identified as latex-sensitive in a manner that is as latex-safe as possible. Prehospital provider agencies shall attempt, when possible, to use patient equipment that minimizes exposure to latex containing products, and shall, at a minimum, maintain the items indicated below for use with patients identified as latex-sensitive. Provider agencies shall maintain documentation demonstrating the latex-safety of the equipment listed below. ALS ambulances shall maintain the complete listing below. BLS ambulance requirements are designated "+."

A.	Airway Adjuncts: Bag-valve-mask device with reservoir, adult and pediatric Endotracheal Tubes: Sizes: 6, 6.5, 7, 7.5, 8, 8.5, 9 Nasal Airways +, Assorted Sizes O ₂ Cannula + Positive Pressure Breathing Valve + - Mask must be latex-safe Stylet Suction Catheters (12, 14, 18 fr.) Suction Catheters, Tonsil Tip + (Yankauer)	Minimum 1 each 1 each 1 package 1 each 1 each 1 each 1 each 1 each
В.	Vascular Access/Monitoring Equipment	
	Armboard: Long (barrier protection acceptable)	1 each
	Armboard: Short (barrier protection acceptable)	1 each
	Blood Pressure Cuff + (barrier protection acceptable)	1 each
	I.V. Administration Sets: (barrier protection acceptable)	
	Macrodrip	1 each
	Microdrip	1 each
	IV Tourniquets	1 each
	Needles: I.V. Cannula - 14 Gauge	1 each
	I.V. Cannula - 16 Gauge	1 each
	I.V. Cannula - 18 Gauge	1 each
	I.V. Cannula - 20 Gauge	1 each
	Three-Way Stopcock with extension tubing	2 each
	Syringes: 1 ml, 3 ml, 5 ml, 10 ml, 20 ml	1 each
	Stethoscope + (barrier protection acceptable)	1 each
C.	Monitoring Defibrillator pads + Electrodes +	1 pkg 1 box

Approved:

SAN DIEGO COUNTY EMERGENCY MEDICAL SERVICES

No. S-105 POLICY/PROCEDURE/PROTOCOL Page: 2 of 2

SUBJECT: Latex-Safe Equipment List Date: 7/1/05

D.	Splinting Devices: Extrication Collars +, Rigid, Adult Traction Splint + (barrier protection acceptable)		1 each 1 each
E.	Packs *Personal Protective Equipment + (masks, glov	es, gowns, shields)	Minimum 2 sets
F.	Other Equipment Cold Packs + (barrier protection acceptable) Hot packs + (barrier protection acceptable) Nasogastric Intubation Set-Up (12 or 14, 18 fr.	48")	1 each 1 each 1 each
Н.	**Replaceable Medications: Tool to remove latex caps from multi-dose vials	with latex plugs	
	IV Solutions: Normal Saline (barrier protection acceptable) Normal Saline (barrier protection acceptable)	1000ml bag 250 ml bag	1 1
I.	OB/Pediatric supplies Bulb Syringe +		1

^{*} Prehospital staff should minimize their own exposure to latex products at all times

- Staff shall be knowledgeable in procedures to use latex-containing products in a latex-safe manner. Such methods include:
 - barrier protective measures (for stethoscope, for example). If barrier protection is used, materials should be easily available to implement the barrier.
 - procedures to remove or cover latex-containing parts (such as the caps on multi-dose medication vials).

Note: See EMS Treatment Protocol S-122: Allergic Reaction/Anaphylaxis for additional information.

Questions regarding the management of latex-sensitive patients should be referred to the Base Hospital.

Approved:

SAN DIEGO COUNTY EMERGENCY MEDICAL SERVICES POLICY/PROCEDURE/PROTOCOL

SUBJECT: EMERGENCY MEDICAL TECHNICIAN-DEFIBRILLATION Date: 7/1/05
AUTOMATED EXTERNAL DEFIBRILLATOR (AED) AND

ESOPHAGEAL TRACHEAL AIRWAY DEVICE (ETAD) STANDING ORDERS

No. D-108

Page: 1 of 2

These standing orders are for cardiac arrest patients that appear to be ≥ 1 years of age (excluding penetrating trauma to head, neck, or trunk).

SHOCKABLE RHYTHM

- 1. Determine patient to be unconscious, pulseless, and with absent or agonal respirations.
- 2. Initiate CPR; ventilate with 100% oxygen if possible.
- 3. Turn on automated defibrillator (AED), attach defibrillator pads; press analyze. (Verbally record patient incident scenario as soon as possible, if recording device equipped.)
- 4. Allow AED to determine the underlying cardiac rhythm.
- 5. When the AED determines that a shock is to be delivered, defibrillate*
- 6. Re-analyze
- 7. Deliver the second and third shocks, as prompted to do so by the AED*
- 8. Check carotid pulse for 5-10 seconds.
- 9. If the victim remains pulseless after the initial series of three shocks, give four deep ventilations, insert appropriate ETAD (if patient appears to be 4 feet or taller) and perform 1 minute of CPR.
- 10. Check pulse
- 11. Reanalyze patient and continue with defibrillation and CPR in accordance with criteria established by Defibrillation Medical Director.
 - A. TRANSPORTING RESPONDERS and/or ALS RENDEZVOUS:
 - After sixth shock is delivered, prepare patient for transport to basic emergency facility (BEF)
 or rendezvous site.
 - 2. Once patient is in the rig, you may reanalyze, if indicated by "check patient" prompt. Proceed as indicated by AED. If no shock indicated, proceed with CPR and transport.
 - 3. While en route, if a "check patient" prompt is received, pull to side of road and analyze. Proceed as indicated by AED. **(ONE TIME ONLY)**
 - B. NON-TRANSPORTING REŚPONDERS:
 - 1. If patient persists in a shockable rhythm, continue serial administration of three (3) shocks, as per protocol, until arrival of transport unit.
 - 2. If patient presents with three (3) consecutive non-shockable rhythms, continue CPR and do not reanalyze unless AED prompts, "check patient".

* SPECIFICATIONS FOR AUTOMATED EXTERNAL DEFIBRILLATORS (AED):

Monophasic AED's must be programmed to deliver the initial shock at 200 w/s and the second shock at 200 w/s or 300 w/s and the third and all subsequent shocks at 360 w/s.

Biphasic AED's must be programmed to deliver shocks with equivalent efficacy to shocks delivered by monophasic devices.

Approved:	&M_ws	
	EMS Medical Director	

SUBJECT: EMERGENCY MEDICAL TECHNICIAN-DEFIBRILLATION Date: 7/1/05
AUTOMATED EXTERNAL DEFIBRILLATOR (AED) AND

ESOPHAGEAL TRACHEAL AIRWAY DEVICE (ETAD) STANDING ORDERS

NON-SHOCKABLE RHYTHM

No. D-108

Page: 2 of 2

- 1. Determine patient to be unconscious, pulseless, and with absent or agonal respirations.
- 2. Initiate CPR; ventilate with 100% oxygen if possible.
- 3. Turn on AED; attach defibrillator pads; analyze (Verbally record patient incident scenario as soon as possible, if recording device equipped.
- 4. Allow AED to determine underlying cardiac rhythm.
- 5. When AED determines rhythm is non-shockable, check carotid pulse for 5-10 seconds.
- 6. Give four deep ventilations then insert ETAD (if patient appears 4 feet or taller).
- 7. If no pulse found, resume CPR for 1 minute.
- 8. Reanalyze.
- 9. If rhythm remains non-shockable, check carotid pulse for 5-10 seconds.
- 10 If no pulse found, resume CPR for 1 minute.
- 11. Reanalyze
- 12. If rhythm remains non-shockable, check carotid pulse for 5-10 seconds.
- 13. If no pulse found, resume CPR until a "check patient" message is given.
- 14. While doing CPR, check for a carotid pulse every 3-5 minutes.

SPECIAL CIRCUMSTANCES

- 1. If patient is found with agonal respirations <6/min or apnea give four deep ventilations insert ETAD (if patient appears 4 feet or taller), then:
 - A. <u>with a pulse of < or = 30bpm per minute</u>, ventilate the patient and continue to monitor the carotid pulse. Reassess the pulse after one (1) minute. If pulse rate continues <30bpm, begin CPR and reassess pulse at one (1) minute intervals.
 - B. with a pulse of >30bpm: ventilate the patient and continue to monitor carotid pulse
 - 1. **TRANSPORTING RESPONDERS**: prepare patient for transport and continue as above.
 - 2. **NON-TRANSPORTING RESPONDERS**: continue as above.

NOTE: If patient becomes pulseless, attach AED and analyze. Proceed as per shockable/non-shockable protocol.

- 2. For patient with return of pulse after shockable rhythm:
 - A. If carotid rate is < or=30 bpm, continue to ventilate patient, perform CPR and recheck pulse rate every one (1) minute.
 - B. If rate greater than 30 bpm, continue to ventilate and reassess pulse at intervals.

SHOULD A "CHECK PATIENT" PROMPT BE RECEIVED. ANALYZE AND PROCEED AS PER PROTOCOL.

NOTE:

- 1. Do not press "ANALYZE" in moving vehicle. If status deteriorates during transport, pull to side of road and stop ambulance. Then analyze and follow algorhythm.
- 2. During transport, the defibrillator should stay on to continue recording.

NOTE: Patients in cervical collar precautions, may be placed in manual traction to insert ETAD (if patient appears 4 feet or taller) and then placed back in cervical collar precautions, if difficulty in insertion exists.

Approved:	an MB
	FMS Medical Director

SAN DIEGO COUNTY EMERGENCY MEDICAL SERVICES POLICY/PROCEDURE/PROTOCOL

SUBJECT: EMERGENCY MEDICAL TECHNICIAN/PUBLIC SAFETY-DEFIBRILLATION
AUTOMATIC EXTERNAL DEFIBRILLATOR (AED) STANDING ORDERS

ON Date: 7/1/05

No. D-109

Page: 1 of 2

These standing orders are for cardiac arrest patients that appear to be ≥ 1 years of age (excluding penetrating trauma to head, neck, or trunk).

SHOCKABLE RHYTHM

- 1. Determine patient to be unconscious, pulseless, and with absent or agonal respirations.
- 2. Initiate CPR; ventilate with 100% oxygen if possible.
- 3. Turn on Automated External Defibrillator (AED), attach defibrillator pads; analyze. (Give patient incident scenario as soon as possible.)
- 4. Allow AED to determine the underlying cardiac rhythm.
- 5. When the AED determines that a shock is to be delivered, defibrillate*
- Reanalyze
- 7. Deliver the second and third shocks, as prompted to do so by the AED*
- 8. Check carotid pulse for 5-10 seconds.
- 9. If the victim remains pulseless after the initial series of three shocks, perform 1 minute of CPR.
- 10. Check pulse
- 11. Reanalyze patient and continue with defibrillation and CPR in accordance with criteria established by Defibrillation Medical Director.
 - A. TRANSPORTING RESPONDERS and/or ALS RENDEZVOUS:
 - 1. After sixth shock is delivered, prepare patient for transport to basic emergency facility (BEF) or rendezvous site.
 - 2. Once patient is in the rig, you may reanalyze, if indicated by "check patient" prompt. Proceed as indicated by AED. If no shock indicated, proceed with CPR and transport.
 - 3. While en route, if a "check patient" prompt is received, pull to side of road and analyze. Proceed as indicated by AED. **(ONE TIME ONLY)**
 - B. NON-TRANSPORTING RESPONDERS:
 - 1. If patient persists in a shockable rhythm, continue serial administration of three (3) shocks, as per protocol, until arrival of transport unit.
 - 2. If patient presents with three (3) consecutive non-shockable rhythms, continue CPR and do not reanalyze unless AED prompts, "check patient".

* SPECIFICATIONS FOR AUTOMATED EXTERNAL DEFIBRILLATORS (AED):

Monophasic AED's must be programmed to deliver the initial shock at 200 w/s and the second shock at 200 w/s or 300 w/s, and the third and all subsequent shocks at 360 w/s.

Biphasic AED's must be programmed to deliver shocks with equivalent efficacy to shocks delivered by monophasic devices.

Approved:			
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	EMS Medical Director		

SAN DIEGO COUNTY EMERGENCY MEDICAL SERVICES POLICY/PROCEDURE/PROTOCOL

SUBJECT: EMERGENCY MEDICAL TECHNICIAN/PUBLIC SAFETY-DEFIBRILLATION
AUTOMATIC EXTERNAL DEFIBRILLATOR (AED) STANDING ORDERS Date: 7/1/05

NON-SHOCKABLE RHYTHM

No. D-109

Page: 2 of 2

- 1. Determine patient to be unconscious, pulseless, and with absent or agonal respirations.
- 2. Initiate CPR; ventilate with 100% oxygen if possible.
- 3. Turn on AED; attach defibrillator pads; analyze (Give patient incident scenario as soon as possible.)
- 4. Allow AED to determine underlying cardiac rhythm.
- 5. When AED determines rhythm is non-shockable, check carotid pulse for 5-10 seconds.
- 6. If no pulse found, resume CPR for 1 minute.
- 7. Reanalyze
- 8. If rhythm remains non-shockable, check carotid pulse for 5-10 seconds.
- 9. If no pulse found, resume CPR for 1 minute.
- 10. Reanalyze
- 11. If rhythm remains non-shockable, check carotid pulse for 5-10 seconds.
- 12. If no pulse found, resume CPR until a "check patient" message is given.
- 13. While doing CPR, check for a carotid pulse every 3-5 minutes.

SPECIAL CIRCUMSTANCES

- 1. If patient is found with agonal respirations or apnea:
 - A. <u>and a pulse of < or = 30 bpm per minute</u>, ventilate the patient and continue to monitor the carotid pulse. Reassess the pulse after one (1) minute. If pulse rate continues <30 bpm, begin CPR and reassess pulse at one (1) minute intervals.
 - B. and a pulse of >30 bpm: ventilate the patient and continue to monitor carotid pulse
 - 1. **TRANSPORTING RESPONDERS**: prepare patient for transport and continue as above.
 - 2. **NON-TRANSPORTING RESPONDERS**: continue as above.

NOTE: If patient becomes pulseless, attach AED and analyze. Proceed as per shockable/non-shockable protocol.

- 2. For patient with return of pulse after shockable rhythm:
 - A. If carotid rate is < or = 30 bpm, continue to ventilate patient, perform CPR and recheck pulse rate every one (1) minute.
 - B. If rate greater than 30 bpm, continue to ventilate and reassess pulse at intervals.

SHOULD A PROMPT TO CHECK PATIENT BE RECEIVED, ANALYZE AND PROCEED AS PER PROTOCOL.

NOTE:

- 1. Do not press "ANALYZE" in moving vehicle. If status deteriorates during transport, pull to side of road and stop ambulance. Then analyze and follow algorhythm.
- 2. During transport, the defibrillator should stay on to continue recording.

Approved:			
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SUBJECT: TREATMENT PROTOCOL -- ALS ADULT STANDING ORDERS

No. <u>P-110</u> Page: <u>1 of 4</u>

Date: 7/1/05

ADULT SKILLS

Cardioversion-Synchronized

Unstable, unconscious SVT

Unstable VT

Unstable, unconscious Atrial Fibrillation/Atrial Flutter with HR >180:

Start at 100 J (or clinically equivalent biphasic energy dose) MR at 200, 300, 360 J (or clinically equivalent biphasic energy dose).

Defibrillation

VT (pulseless)/ VF. Start at 200 J, repeat prn at 300 J x1, then 360 J prn if no conversion (or clinically equivalent biphasic energy dose).

Glucose Monitoring

Symptomatic ?Hypoglycemia.

Indwelling Devices

Use pre-existing external indwelling vascular access devices as primary vascular access. Use hemodialysis vascular access/fistula/graft if unable to start IV for definitive therapy purposes only.

Intubate (ET/Stomal/ETAD)

Apnea or ineffective respirations for unconscious patient or decreasing LOC.

Magill Forceps with direct Laryngoscopy

Airway obstruction from foreign body with decreasing LOC or unconscious.

Nasogastric Tube Insertion

Gastric distension interfering with ventilation.

Precordial Thump

Monitored/unmonitored witnessed arrest, initial onset VF/VT.

Re-alignment of Fracture

Grossly angulated long bone fracture with gentle unidirectional traction if necessary for splinting.

Removal of Impaled Object

Compromised ventilation of patient with impaled object in face/cheek or neck.

Valsalva Maneuver

SVT.

Approved:

SUBJECT: TREATMENT PROTOCOL -- ALS ADULT STANDING ORDERS

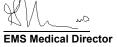
MEDICATIONS

No. <u>P-110</u>

Page: 2 of 4

Date: 7/1/05

	MEDICATIONS	
MEDICATION	DOSAGE / ROUTE/INDICATION	
Albuterol	Respiratory distress with bronchospasm OR	
	Allergic reaction in presence of respiratory distress with bronchospasm:	
	• 6ml of 0.083% via nebulizer. MR	
Adenosine	SVT with no history of bronchospasm or COPD:	
	6 mg IVP followed by 20ml NS IVP	
	12 mg IVP followed by 20 ml NS IVP.	
	If no sinus pause, MR x1 in 1-2"	
ASA	Discomfort/Pain of suspected cardiac origin or discomfort/pain relieved with NTG SL	
	(prior to arrival or EMS administered):	
Atropine	■ 162mg PO Unstable Bradycardia with Pulse < 60:	
7 th opine	• 0.5 – 1mg IVP. MR q3-5" IVP to max 3 mg	
	• 1 - 2mg ET. MR q3-5" to max of 6 mg administered dose	
	Asystole/PEA rate < 60:	
	• 1mg IVP. MR q3-5" to max of 3 mg	
	2mg ET. MR q3-5" to max of 6 mg administered dose	
	OPP:	
A 4 4	• 2 mg IVP/IM or 4 mg ET MR x2 q3-5"	
Atrovent	' '	
	Allergic reaction in presence of respiratory distress with bronchospasm:	
<u> </u>	2.5ml 0.02% via nebulizer added to first dose of Albuterol	
Benadryl	Extrapyramidal reactions OR	
	Allergic reaction/anaphylaxis • 50mg slow IVP/IM	
Charcoal	Ingestions excluding isolated alcohol, heavy metal, caustic agents, hydrocarbons	
Onaroda	or iron	
	• 50 Gm PO	
D ₅₀	Hypoglycemia:	
	Symptomatic patient unresponsive to oral glucose agents:	
	D ₅₀ 25Gm IVP <u>SO</u> if BS <75mg/dl. If patient remains symptomatic and BS < 75	
	mg/dl MR <u>SO</u>	
Epinephrine	Cardiac arrest:	
1:10,000	• 1mg IVP. MR q3-5".	
Epinephrine	Severe respiratory distress with bronchospasm OR	
1:1,000	Exposure to known allergen with previous severe reaction and with onset of <u>any</u> allergic symptoms if no known cardiac history and < 65yo OR	
	Anaphylaxis (shock or cyanosis)	
	• 0.3mg SC. MR x2 q10"	
	Cardiac arrest:	
	Caratao arroot.	



SUBJECT: TREATMENT PROTOCOL -- ALS ADULT STANDING ORDERS

Date: 7/1/05

No. <u>P-110</u>

Page: 3 of 4

• 2mg ET MR q3-5".	
 10mg diluted to 20ml ETAD-esophageal port 1 (blue), MR q5" 	

MEDICATION	DOSAGE / ROUTE
Glucagon	Symptomatic patient unresponsive to oral glucose agents: If no IV: 1ml IM SO if BS < 75 mg/dl
Lasix	Respiratory Distress with Rales (?cardiac origin): • 40mg or double daily dose to maximum of 100mg IVP MR to maximum of 100mg total dose
Lidocaine	VF/VT pulseless: • 1.5mg/kg IVP or 3mg/kg ET MR x1 in 3-5" Stable VT OR Post Conversion VT/VF with pulse ≥ 60: • 1.5mg/kg IVP MR 0.5 mg/kg q8-10" to a max of 3 mg/kg OR • 3mg/kg ET MR 1 mg/kg q8-10" to a max of 6 mg/kg administered dose
MS	For treatment of pain score assessment of ≥ 5 with systolic BP ≥ 100 • 2-4mg IVP MR to max of 10 mg OR • 5mg IM OR • 10mg PO Discomfort/pain of suspected cardiac origin where systolic BP ≥ 100 OR Respiratory Distress with Rales where systolic BP ≥ 100: • 2-4 mg IVP MR to max of 10 mg
Narcan	Symptomatic ?opioid OD (excluding opioid dependent pain management patients): • 2mg IVP/direct IVP/IM. MR • 2mg IM as an additional dose if patient refuses transport Symptomatic ?opioids OD in opioid dependent pain management patients: • Narcan titrate 0.1mg increments up to 2mg IVP/direct IVP or IM
NTG SL	Discomfort/pain of cardiac origin if systolic BP ≥ 100 OR Respiratory distress with rales (?cardiac origin) if systolic BP ≥ 100: • 0.4mg SL MR q3-5"
NTG Topical	Discomfort/pain of cardiac origin or discomfort/pain relieved with NTG SL (prior to arrival or EMS administered) if systolic BP ≥100 OR Respiratory distress with rales (?cardiac origin) if systolic BP ≥100: • 1" ointment

Approved:

SUBJECT: TREATMENT PROTOCOL -- ALS ADULT STANDING ORDERS Date: 7/1/05

No. <u>P-110</u>

Page: 4 of 4

	Definitive therapy only:
NS	IV, adjust prn
	Crush injury with extended entrapment > 2 hours of extremity or torso:
	 IV 1000 ml fluid bolus when extremity released
	?Intra-abdominal catastrophe OR
	?aortic aneurysm OR
	Shock: hypovolemia OR
	Shock: normovolemia (anaphylaxis, neurogenic) OR
	Trauma:
	 IV 500 ml fluid bolus MR to maintain systolic BP ≥ 90
	Shock (?cardiac etiology, septic shock) with clear lung sounds OR
	Discomfort/pain of ?cardiac origin with associated shock with clear lung sounds OR
	Dysrhythmias with clear lung sounds:
	IV 250 ml fluid bolus. MR to maintain systolic BP > 90
	Burns \geq 20% 2 nd or \geq 5% 3 rd degree and \geq 15 yo
	IV 500 ml fluid bolus, then TKO
	Generalized seizure lasting >5" OR
Versed	Focal seizure with respiratory compromise OR
	Recurrent seizure without lucid interval OR
	Eclamptic seizure:
	• 0.1mg/kg slow IVP, to a max dose of 5mg. MR x1 in 10" OR
	• If no IV: 0.2mg/kg IM to a max dose 10mg. MR x1 in 10"
	Pre-cardioversion for conscious VT:
	• 1-5 mg slow IVP prn

Note: Maintain previously established, labeled IV solutions, medication delivery systems, and/or other treatment modalities at preset rates.

Approved:

SUBJECT: TREATMENT PROTOCOL -

ADULT STANDING ORDERS FOR COMMUNICATION FAILURE

No. <u>P-111</u>

Page: <u>1 of 2</u>

Date: 7/1/05

ALS

When unable to communicate with BH while at scene/enroute, <u>IN ADDITION TO STANDING ORDERS</u>, the following may be initiated without BH contact. **Maximum doses include standing order doses.**

PROTOCOL	CHIEF COMPLAINT and TREATMENT
Allergic Reaction/	Severe respiratory distress with bronchospasm OR
Anaphylaxis (S-122):	Exposure to Known Allergen with previous severe reaction and with
/apy.a.a.e (C 122).	onset of any allergic symptoms (e.g. urticaria, swelling etc.)
	If KNOWN cardiac history and/or > 65yo:
	• Epinephrine 0.3 mg. 1:1,000 SC MR x2 q10"
	Anaphylaxis (shock or cyanosis):
	Epinephrine 1:10,000 0.1mg slow IVP. MR x2 q3-5" for persisting
	symptoms.
	 Epinephrine 2 mg 1:1,000 ET MR x2 q3-5" for persisting symptoms
	 Dopamine 400mg/250ml at 5-40mcg/kg/min IV drip; titrate to systolic
	BP > 90
Altered Neurological	Symptomatic ?opioids OD in opioid dependent pain management
Function	patients:
(S-123):	Narcan titrate 0.1mg increments to 2mg IVP/direct IVP/IM MR
Discomfort/Pain of	If response to treatment noted, continue treatment and transport.
Suspected Cardiac	 NTG 0.4 mg SL if systolic BP < 100
Origin (S-126) :	MS 2-4 mg IV. MR to max 20 mg if systolic BP <100
	Discomfort/Pain of ?Cardiac Origin with Associated Shock:
	Dopamine 400mg/250ml at 5-40mcg/kg/min IV drip; titrate to systolic Dopamine 400mg/250ml at 5-40mcg/kg/min IV drip; titrate to systolic
Dynamby themsica (C. 427)	BP ≥ 90
Dysrhythmias (S-127) Unstable Bradycardia	If rhythm refractory to Atropine 1 mg:
Offstable Bradycardia	External cardiac pacemaker, if available, may use If conture cooking additional to the second 1.5 mg IVD. The second 1.
	If capture occurs sedate with Versed 1-5 mg IVP Page 100 mg /350 as at 5 40 mgg // with 11/2 drip titrate evertaling.
	 Dopamine 400mg /250cc at 5-40mcg/kg/min IV drip, titrate systolic BP=90-120 (after max Atropine or initiation of pacing)
SVT: (S-127)	Patients with history of bronchospasm or COPD
, ,	Adenosine 6mg rapid IVP, followed with 20ml NS IVP
	Adenosine 12mg rapid IVP followed with 20ml NS IVP
	If no sinus pause, MR x1 in 1-2"
	If patient unstable with severe symptoms OR rhythm refractory to
	treatment:
	Conscious (BP<90 systolic and chest pain, dyspnea or altered LOC):
	 Versed 1-5 mg slow IVP prn precardioversion. If age ≥ 60 consider
	lower dose with attention to age and hydration status
	Synchronized cardioversion at 100 J (or clinically equivalent biphasic
	energy dose) MR at 200, 300, 360 J (or clinically equivalent biphasic
	energy dose) Unconscious:
	Synchronized cardioversion MR prn
Unstable Atrial Fib/	Unstable, Unconscious Atrial Fibrillation/ Atrial Flutter HR ≥180:
Flutter (S-127)	Synchronized cardioversion MR prn
V Tach (S-127)	Unstable with severe symptoms:
,	Synchronized cardioversion MR prn
Pulseless Electrical	NaHCO₃ 0.5 mEq/kg IVP, MR q10"
Activity (PEA)	If no response after 3 doses of Epinephrine, d/c resuscitative efforts
	If response to treatment noted, continue treatment and transport

Approved:

SUBJECT: TREATMENT PROTOCOL -

ADULT STANDING ORDERS FOR COMMUNICATION FAILURE

No. <u>P-111</u>

Page: <u>2 of 2</u>

Date: 7/1/05

PROTOCOL	CHIEF COMPLAINT and TREATMENT	
Asystole (S-127)	If no response after 3 doses of Epinephrine, d/c resuscitative efforts	
' ' '	If response to treatment noted, continue treatment and transport	
Hemodialysis Patient		
(S-131)	NaHCO ₃ 1mEq/kg IV push x1	
	• CaCl ₂ 500mg IVP MR x1	
Poisoning/OD (S-134):	Symptomatic ?opioids OD in opioid dependent pain management	
1 01301111g/02 (0 104).	patients:	
	Narcan titrate 0.1mg increments up to 2mg IVP/direct IVP/IM MR	
	Symptomatic Organophosphate Poisoning:	
	Atropine 2mg IVP/IM or 4mg ET, MR g3-5"	
	?Tricyclic OD with cardiac effects (e.g. hypotension, heart block,	
	widened QRS):	
	NaHCO₃ 1mEq/kg IVP	
Pre-existing Medical	Previously established electrolyte and/or glucose containing IV	
Intervention (S-135)	solutions: Adjust rate or d/c	
, ,	Previously established treatment modalities: d/c prn	
Respiratory Distress	Respiratory Distress with Rales (? Cardiac Etiology):	
(S-136)	Systolic BP ≥ 100	
	 MS 2-4 mg IV. MR to max 20 mg 	
	Systolic BP < 100	
	NTG 0.4 mg SL	
	 Lasix 40 mg or double daily dose to maximum of 100mg IVP 	
	 MS 2-4 mg IV. MR to max 20 mg 	
	Severe Respiratory Distress with Bronchospasm or inadequate	
	response to Albuterol/Atrovent consider:	
	Use with caution if known cardiac history and/or \geq 65 yo	
	 Epinephrine 1:1,000 0.3mg SC, MR x2 q10" 	
Shock (S-138) :	Shock Non-hypovolemic:	
	 Dopamine 400mg/250ml at 5-40mcg/kg/min IV drip, titrate systolic 	
	BP ≥90	
Trauma (S-139):	Crush Injury with extended entrapment > 2 hours:	
	 NaHCO₃ 1mEq/kg IVP after extremity released 	
	Severe respiratory distress with unilateral breath sounds and systolic	
	BP <90 in intubated or positive pressure ventilated patients:	
	Needle thorocostomy	
	Traumatic arrest:	
	Consider discontinuing resuscitative measures at scene if no	
Dain Management (C	response and extensive transport time	
Pain Management (S-	For treatment of pain score assessment of > 5 with systolic BP > 100:	
141):	MS MR 2-10mg in 2-4 mg increments IVP to max of 20mg OR MS MR to may of 10mg IM OR	
	MS MR to max of 10mg IM OR MS MR to may of 30mg RO	
	MS MR to max of 30mg PO	

Approved:

No. P-112 Page: 1 of 3

Date: 7/1/05

SUBJECT: TREATMENT PROTOCOL -- ALS PEDIATRIC STANDING ORDERS

PEDIATRIC SKILLS

Defibrillation (monophasic/biphasic)

VF/VT (pulseless)

Glucose Monitoring

Symptomatic hypoglycemia.

Indwelling Devices

Use pre-existing external indwelling vascular access devices as primary vascular access. Use hemodialysis vascular access/fistula/graft if unable to start IV for definitive therapy purposes only.

Intraosseous Infusion: Acute status patient < 8 yo when other venous access unsuccessful.

Anaphylaxis Dysrhythmias Poisoning/Overdose (OPP) Shock Trauma

Intubate (ET/Stomal/ETAD)

Apnea or ineffective respirations for unconscious patient or decreasing LOC. Newborn delivery when HR remains <60 bpm after 30 seconds of ventilation with 100% O₂.

Magill Forceps with Direct Laryngoscopy

Airway obstruction from foreign body with decreasing LOC or unconscious

Nasogastric Tube Insertion

Gastric distension interfering with ventilation Uncuffed intubations

Re-alignment of Fracture

Grossly angulated long bone fracture with gentle unidirectional traction if necessary for splinting.

Removal of Impaled Object

Compromised ventilation of patient with impaled object in face/cheek or neck

Approved:			
	o 00 4		

Date: 7/1/05

SUBJECT: TREATMENT PROTOCOL -- ALS PEDIATRIC STANDING ORDERS

All medications are per pediatric drug chart unless otherwise noted

MEDICATION	DOSAGE / ROUTE
Albuterol	Respiratory distress with bronchospasm OR Allergic reaction in presence of respiratory distress with bronchospasm • Via nebulizer MR prn
Atropine	Symptomatic Organophosphate Poisoning IVP/IM/IO/ET MR x2 q3-5" Unstable bradycardia > 30 days IV/IO/ET MR x1 in 5"
Atrovent	Via nebulizer added to first dose of Albuterol
Benadryl	Allergic reaction (may include mild hypotension) OR Exposure to known allergen with previous severe reaction and with onset of any allergic symptoms OR Anaphylaxis OR Extrapyramidal reaction: IM/IVP
Charcoal	Ingestions excluding isolated alcohol, heavy metal, caustic agents, hydrocarbons or iron • PO
D ₂₅	Hypoglycemia: Symptomatic patient unresponsive to oral glucose agents: IVP SO if BS <75mg/dl (infant < 60mg/dl) If patient remains symptomatic and BS < 75 mg/dl (infant < 60mg/dl) MR SO
Epinephrine 1:10,000	Cardiac arrest OR Unstable bradycardia after 30 seconds of ventilation OR Newborn delivery with HR <60 after 30 seconds of CPR: ■ IVP/IO MR x 2 q3-5"
Epinephrine 1:1000	Cardiac arrest OR Unstable bradycardia after 30 seconds of ventilation OR Newborn delivery with HR <60 after 30 seconds of CPR: ET MR x2 q3-5" diluted to 3 ml ETAD - esophageal port 1 (blue) MR x2 q5" dilute to 20 ml Severe respiratory distress with bronchospasm OR Exposure to known allergen with previous severe reaction and with onset of any allergic symptoms OR Anaphylaxis (shock or cyanosis): SC MR x2 q10" Respiratory distress with stridor: Via nebulizer MR x1

Approved:

m MR

Date: 7/1/05

SUBJECT: TREATMENT PROTOCOL -- ALS PEDIATRIC STANDING ORDERS

All medications are per pediatric drug chart unless otherwise noted

MEDICATION	DOSAGE / ROUTE
Glucagon	Symptomatic patient unresponsive to oral glucose agents: If no IV: IM if BS < 75 mg/dl (infant <60mg/dl)
Lidocaine	VF/pulseless VT OR Post Conversion VF/VT with pulse ≥ 60 bpm: ■ IVP/IO/ET MR
Morphine	For treatment of pain score assessment of ≥ 5 with systolic BP ≥ [70 +(2x age in years)]: ■ IV/IM/PO
Narcan	Symptomatic ?opioid OD excluding opioid dependent pain management patients: • Direct IVP/IV/IM. MR Symptomatic ?opioids OD in opioid dependent pain management patients: • Titrate per drug chart IVP/IV/IM (dilute IV dose to 10ml with NS)
NS	Anaphylaxis OR Dysrthymias OR Noncardiogenic Shock: ■ IV/IO fluid bolus MR to maintain systolic BP > [70 + (2x age)] if lungs clear Cardiogenic shock ■ IV/IO fluid bolus MR x1 to maintain systolic BP > [70 + (2x age)] if lungs clear Burns ≥10% 2 nd or ≥ 5% 3 rd degree: ■ 5-14 yo: IV 250 ml fluid bolus then TKO ■ <5 yo: IV 150 ml fluid bolus then TKO
Versed	Generalized seizure lasting ≥5" OR Focal seizure with respiratory compromise OR Recurrent seizure without lucid interval: ■ slow IVP MR x1 in 10" ■ if no IV may give IM MR x1 in 10"

Note: Maintain previously established, labeled IV solutions, medication delivery systems, and/or other treatment modalities at preset rates.

Approved:

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SUBJECT: TREATMENT PROTOCOL -

PEDIATRIC STANDING ORDERS FOR COMMUNICATION FAILURE

No. <u>P-113</u>

Page: <u>1 of 1</u>

Date: 7/1/05

ALS

When unable to communicate with BH while at scene/enroute, <u>IN ADDITION TO STANDING ORDERS</u>, the following may be initiated without BH contact. **Maximum doses include standing order doses.**All modications are per pediatric drug chart unless otherwise noted.

	nedications are per pediatric drug chart unless otherwise noted		
PROTOCOL	CHIEF COMPLAINT and TREATMENT		
Altered Neurological	Symptomatic ?opioids OD in opioid dependent pain management patients:		
Function (S-161):	Narcan titrate IVP/IV/IM (dilute IV dose to 10ml with NS)		
Allergic Reaction/	Severe respiratory distress with bronchospasm OR		
Anaphylaxis (S-162):	Exposure to Known Allergen with previous severe reaction and with onset of		
	any allergic symptoms (e.g. urticaria, swelling etc.)		
	Anaphylaxis (shock or cyanosis):		
	 Epinephrine 1:10,000 IVP/IO. MR x2 q3-5" for persisting symptoms. 		
	 Epinephrine1:1000 ET MR x2 q3-5" for persisting symptoms 		
Dysrhythmias (S-163):	 Epinephrine 1:10,000 IVP/IO MR q3-5" 		
<u>Unstable</u> Bradycardia	• OR		
	Epinephrine 1:1000 ET q3-5"		
	OR		
	Epinephrine 1:1000 (diluted to 20ml) ETAD-esophageal via port 1 (blue) MR q5"		
SVT: (S-163)	 Adenosine rapid IVP follow with 20ml NS IVP 		
	Adenosine rapid IVP follow with 20ml NS IVP		
	 If no sinus pause, MR x1 		
	Versed slow IVP prn precardioversion		
	Synchronized cardioversion (monophasic/biphasic) MR		
VF/Pulseless VT OR	Epinephrine 1:10,000 IVP/IO MR q3-5" OR		
Cardiac Arrest - Unmonitored	• Epinephrine 1:1000 ET q3-5" OR		
(NonTraumatic) OR	Epinephrine 1:1000 (diluted to 20ml) ETAD-esophageal via port 1 (blue) MR		
Activity (PEA) (S-163)	q5"		
Asystole (S-163)	Epinephrine 1:10,000 IVP/IO MR q3-5" OR		
,	Epinephrine 1:1000 ET q3-5" OR		
	Epinephrine 1:1000 (diluted to 20ml) ETAD-esophageal via port 1 (blue) MR		
	q5"		
	 If no response after 3 doses of Epinephrine, d/c resuscitative efforts 		
	 If response to treatment noted, continue treatment and transport. 		
Poisoning/OD (S-165):	Symptomatic ?opioid OD in opioid dependent pain management patients:		
	Narcan titrate IVP/IV/IM (dilute IV dose with 10ml NS)		
	Symptomatic Organophosphate Poisoning:		
	Atropine IVP/IM/IO/ET, MR q3-5" 3Tripuelle OP with partial officers (a.g. hypotensian heart block widehed).		
	?Tricyclic OD with cardiac effects (e.g. hypotension, heart block, widened QRS):		
	NaHCO3 IVP		
Trauma (S-169):	Crush Injury with extended entrapment ≥ 2 hours of extremity or torso:		
Trauma (0=100).	IV Fluid bolus when extremity released		
	NaHCO ₃ IVP		
	Severe respiratory distress with unilateral breath sounds AND BP< [70 +(2x age		
	in years)] in intubated or positive pressure ventilated patients:		
	Needle thorocostomy		
	Traumatic arrest:		
	Consider discontinuing resuscitative measures at scene if no response and		
	extensive transport time		
Pain Management	For treatment of pain score assessment of > 5 with BP > 70+(2xage in years):		
(S-173):	MS MR IVP/IM/PO		

Approved:

No.<u>P-114</u> Page:<u>1 of 1</u>

Date: 7/1/05

SUBJECT: MOBILE INTENSIVE CARE UNIT INVENTORY - PEDIATRIC

- Authority: Health and Safety Code, Division 2.5, Section 1797.204.
- II. <u>Purpose</u>: Identify a minimum standardized inventory on all Mobile Intensive Care Units.
- III. Policy: Essential equipment and supplies to be carried on each Mobile Intensive Care Unit (MICU) in San Diego County shall include all items found in the adult inventory as well as the following:
 - **A.** Essential equipment and supplies required by California Code of regulations, Title 13, Section 1103.2(a) 1-20.

В.	Pediatric Items: 1. Airway:	<u>Minimum</u>
	Bag-valve-mask device with reservoir 250ml, 500ml, 1000ml and the following interchangeable masks:	1 each
	premature size	1
	neonate size	1
	child size	1
	End Tidal CO₂ Detection Devices (<15kg, ≥15kg) OR Quantitative End Tidal CO₂ Capnography (optional item)	2 each 1
	ET Tubes uncuffed 2.5, 3.0, 3.5, 4.0, 4.5, 5.0	1 each
	ET Tubes uncuffed 2.5, 5.6, 5.6, 4.6, 4.6, 5.6	1
	Feeding tube (8 Fr.)	1
	Laryngoscope – Blades curved and straight sizes 0, 1, and 2	1 each
	Magill Forcep – small	1
	Oral Airways 0-5	1 each 1
	O2 Mask (non rebreather), Pediatric Stylet (6F and 14F)	1 each
	Suction Catheters (5,6,8,10 Fr.)	1 each
	2. Birth: Bulb syringe Head covering for newborn (or from OB pack) Identification bands for mother/baby (or from OB pack) Storilo Sciences (or people) from OB pack)	1 1 1
	Sterile Scissors (or scalpel from OB pack) Umbilical Tape (or use clamp from OB pack)	1 1
	Warm packs not to exceed 110 degrees F, or	ı
	warming device with blanket Match language.	1
	3. Immobilization:	
	Extrication Collars, Rigid, Child (small, medium, large) Traction Splint – Pediatric (or equivalent)	2 each 1
	4. Vascular Access/Monitoring Devices:	
	Defibrillation paddles (4.5.cm, 8.0 cm) Gauze	1 pair each 1 package
	IV cannula 22, 24	4 each
	IO – Jamshidi-type needle – 18 Gauge IO – Jamshidi-type needle – 15 Gauge	2 2
	Three-Way Stopcock and extension tubing	2
	Broselow Tape	1
	Blood Pressure Cuff:	•
	Infant size	1
	Child size	1
	Pediatric Drug Chart	1

Approved:

P-115 ALS MEDICATION LIST 7/1/05

Page 1 of 4

MEDICATION	INDICATIONS	PROTOCOL	COMMENTS	CONTRAINDICATIONS
ADENOSINE	SVT	S-127, S-163	BHO for patients with history of bronchospasm or COPD. Do not give third dose if patient has sinus pause following second dose.	Second or third degree AV block Sick Sinus Syndrome (without pacemaker)
ALBUTEROL	Respiratory distress with bronchospasm Allergic Reaction Burns	S-122, S-136, S-162, S- 167 S-124, S-170	Inhalation continuous via O ₂ powered nebulizer	
ASPIRIN	Pain/discomfort of ?cardiac origin	S-126		
ATROPINE SULPHATE	Asystole, adult PEA HR <60 after Epinephrine dose Unstable Bradycardia Organophosphate poisoning	S-127, S-134, S-150, S-163, S-165		Pediatric asystole Unstable Bradycardia <30 days
ATROVENT	Respiratory distress with bronchospasm Allergic Reaction Burns	S-122, S-136, S-162, S- 167 S-124, S-170	Added to first dose of Albuterol via continuous O ₂ powered nebulizer	
BENADRYL (DIPHENHYDRAMINE)	Allergic reaction Anaphylaxis Extrapyramidal reaction	S-122, S-134, S-162, S- 165	IVP - administer slowly	
CALCIUM CHLORIDE	Suspected hyperkalemia in hemodialysis patient in presence of widened QRS complex and peaked T waves	S-131		

APPROVED:

P-115 ALS MEDICATION LIST 7/1/05

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MEDICATION	INDICATIONS	PROTOCOL	COMMENTS	CONTRAINDICATIONS
CHARCOAL (no Sorbitol)	Ingestion	S-134, S-165	Assure patient has gag reflex and is cooperative.	Isolated alcohol, heavy metal, caustic agents, hydrocarbons or iron ingestion
D ₅₀ (Dextrose 50%) OR D ₂₅ (Dextrose 25%) Peds	Symptomatic hypoglycemia: if BS <75mg/dl (Infant <60mg/dl)	S-123, S-161	Repeat BS not indicated en route if patient improving	
DOPAMINE HYDROCHLORIDE	Shock:normovolemia (anaphylactic, neurogenic) Shock: (?cardiac etiology, septic) Discomfort/Pain of ?cardiac origin with associated shock Unstable Bradycardia (after max Atropine or TCP)	S-138 S-122 S-126 S-127	Titrate to maintain systolic BP > 90 not to exceed 120	
EPINEPHRINE	Cardiac arrest Allergic reaction Anaphylaxis Respiratory distress with bronchospasm Respiratory distress with stridor	S-127, S-163 S-122, S-162 S-136, S-167	ETAD if ventilating via esophageal Port 1 (blue): dilute to 20ml volume ETAD if ventilating via tracheal Port 2 (white): use ET doses SC: BHO if patient ≥ 65yo and history of known cardiac disease	
GLUCAGON	Unable to start IV in patient with symptomatic hypoglycemia if BS <75mg/dl (Infant <60mg/dl)	S-123, S-161		

APPROVED:

P-115 ALS MEDICATION LIST 7/1/05

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MEDICATION	INDICATIONS	PROTOCOL	COMMENTS	CONTRAINDICATIONS
LASIX (FUROSEMIDE)	Respiratory distress with rales (?cardiac etiology) Fluid overload in hemodialysis patient	S-136	If on Bumex give max dose of 100 mg	
LIDOCAINE (XYLOCAINE)	VT VF/ pulseless VT Post conversion from VT/VF with HR ≥ 60 bpm	S-127, S-163	Adult doses should be given in increments rounded to the nearest 20mg amount. In the presence of shock, CHF or liver disease, the repeat bolus is recommended at 10" intervals.	Second and third degree heart block and idioventricular rhythm
LIDOCAINE JELLY (2%) optional	Intubation or Nasopharyngeal airway		Apply to ET tube or nasal airway	
MORPHINE SULPHATE (MS)	Burns Envenomation injury Trauma Pain or discomfort of ?cardiac origin Respiratory distress with rales (?cardiac origin)	S-124, S-170 S-129, S-164 S-139, S-169 S-126 S-136	BHPO for: Chronic pain states Isolated head injury Acute onset severe headache Drug/ETOH intoxication Multiple trauma with GCS <15 Suspected active labor Abdominal pain	

APPROVED:

P-115 ALS MEDICATION LIST 7/1/05

Page 4 of 4

MEDICATION	INDICATIONS	PROTOCOL	COMMENTS	CONTRAINDICATIONS
	1			
NARCAN (NALOXONE HYDROCHLORIDE)	Symptomatic ?opioid OD	S-123, S-161 S-134, S-165		
NORMAL SALINE	Definitive therapy	All	Definitive therapy defined as the administration of fluid or medications.	Rales (bolus)
NITROGLYCERINE (NTG)	Pain or discomfort of ?cardiac origin Respiratory distress with rales	S-126 S-136		Suspected intracranial bleed If any patient has taken a sexual enhancement medication such as Viagra, Cialis, Levitra within 48 hours
SODIUM BICARBONATE (NaHCO ₃)	PEA Tricyclic OD with cardiac effects Hyperkalemia in the hemodialysis patient Crush injury	S-127 S-134, S-165 S-131 S-139, S-169		
VERSED (MIDAZOLAM)	Precardioversion External Pacemaker post capture Seizure	S-127, S-163 S-123, S-133, S-161	<u>BHPO</u> precardioversion for A Fib/A Flutter and external pacemaker post capture	

APPROVED:

SUBJECT: TREATMENT PROTOCOL – PEDIATRIC (< 15 yo and < 37 kg) DRUG CHART

Date: 2005

Broselow color: GREY/PINK

Kg range: < 8 kg Approx Kg: 5 kg Approximate LBS: 10 lbs Defib: $\frac{1^{st}}{10 \text{ J}} = \frac{2^{nd}}{20 \text{ J}} = \frac{3^{rd}}{20 \text{ J}}$ ET tube size: 3.5 Cardiovert: 5 J 10 J 10 J

NG tube size: 5 Fr (or clinically equivalent biphasic energy dose)

VOL	MEDICATION	DOSE	CONCENTRATION
0.2 ml	Adenosine IV 1st	0.5 mg	6 mg/2 ml
0.4 ml	Adenosine IV 2 nd /3rd	1 mg	6 mg/2 ml
6 ml	Albuterol- Nebulized	5 mg	2.5 mg/3 ml
2.5 ml	Atrovent-Nebulized	0.05 mg	0.05 mg/2.5 ml
1 ml	Atropine (Bradycardia) IV/IO	0.1 mg	1 mg/10 ml
0.3 ml *	Atropine (OPP) IV/IM	0.1 mg	0.4 mg/1 ml
0.5 ml	Atropine ET	0.2 mg	0.4 mg/1 ml
0.1 ml	Benadryl IV/IM	5 mg	50 mg/1 ml
24 ml	Charcoal PO	5 GM	50 GM/240 ml
10 ml	Dextrose 25% IV	2.5 GM	12.5 GM/50 ml
0.5 ml	Epinephrine IV/IO	0.05 mg	1:10,000 1mg/10ml
0.5 ml	Epinephrine ET	0.5 mg	1:1,000 1mg/1ml
0.1 ml *	Epinephrine SC	0.05 mg	1:1,000 1mg/1ml
2.5 ml	Epinephrine- Nebulized	2.5 mg	1:1,000 1mg/1ml
0.3 ml *	Glucagon IM	0.25 mg	1 unit (mg)/1 ml
0.3 ml *	Lidocaine 2% IV/IO	5 mg	100 mg/5 ml
0.5 ml	Lidocaine 2% ET	10 mg	100 mg/5 ml
NONE	Morphine Sulfate IV/IM	NONE	10 mg/1 ml
0.8 ml *	Morphine PO	1.5 mg	10 mg/5 ml
0.5 ml	Narcan IV/DIVP/IM	0.5 mg	1 mg/1 ml
5 ml	Narcan IV titrated increments	0.5 mg	Diluted to 1 mg/10 ml
100 ml	Normal Saline Fluid Bolus		Standard
5 ml	Sodium Bicarb IV	5 meq	1 meq/1 ml
0.1 ml	Versed IV	0.5 mg	5 mg/1 ml
0.2 ml	Versed IM	1 mg	5 mg/1 ml

- To assure accuracy be sure the designated concentration of medication is used.
- All pediatric ET doses are diluted with NS to achieve a minimum volume of 3 ml.
- Volume rounded for ease of administration

Approved:

SUBJECT: TREATMENT PROTOCOL – PEDIATRIC (< 15 yo and < 37 kg) DRUG CHART

Date: 2005

Broselow color: RED Broselow color: PURPLE

Broselow color: YELLOW

 Kg range: 8-14kg Approx Kg: 10 kg
 1st
 2nd
 3rd

 Approximate LBS:
 20 lbs
 Defib:
 20 J
 40 J
 40 J

 ET tube size:
 3.5(R)
 4 (P)
 4.5(Y)
 Cardiovert:
 10 J
 20 J
 20 J
 20 J

NG tube size: 5-8 Fr 8-10 Fr 10 Fr (or clinically equivalent biphasic energy dose)

VOL	MEDICATION	DOSE	CONCENTRATION
0.3 ml *	Adenosine IV fast 1st	1mg	6 mg/2 ml
0.5 ml *	Adenosine IV fast 2nd/3rd	2 mg	6 mg/2 ml
6 ml	Albuterol- Nebulized		
2.5 ml		5 mg	2.5 mg/3 ml
	Atrovent-Nebulized	0.05 mg	0.05 mg/2.5 ml
2 ml	Atropine (Bradycardia) IV/IO	0.2 mg	1 mg/10 ml
0.5 ml	Atropine (OPP) IV/IM	0.2 mg	0.4 mg/1 ml
1 ml	Atropine ET	0.4 mg	0.4 mg/1 ml
0.2 ml	Benadryl IV/IM	10 mg	50 mg/1 ml
50 ml *	Charcoal PO	10 GM	50 GM/240 ml
20 ml	Dextrose IV 25%	5 GM	12.5 GM/50 ml
1 ml	Epinephrine IV/IO	0.1 mg	1:10,000 1mg/10ml
1 ml	Epinephrine ET	1 mg	1:1,000 1mg/1ml
0.1 ml	Epinephrine SQ	0.1 mg	1:1,000 1mg/1ml
2.5 ml	Epinephrine-Nebulized	2.5 mg	1:1,000 1mg/1ml
0.5 ml	Glucagon IM	0.5 mg	1 unit (mg)/1 ml
0.5 ml	Lidocaine 2% IV/IO	10 mg	100 mg/5 ml
1 ml	Lidocaine 2% ET	20 mg	100 mg/5 ml
0.1 ml	Morphine Sulfate IV/IM	1 mg	10 mg/1 ml
1.5 ml	Morphine Sulfate PO	3 mg	10 mg/5 ml
1 ml	Narcan IV/DIVP/IM	1 mg	1 mg/1 ml
10 ml	Narcan IV titrated increments	1 mg	Diluted to 1 mg/10 ml
200 ml	Normal Saline Fluid Bolus		Standard
10 ml	Sodium Bicarb IV	10 mEq	1 meq/1 ml
0.2 ml	Versed IV	1 mg	5 mg/1 ml
0.4 ml	Versed IM	2 mg	5 mg/1 ml

- To assure accuracy be sure the designated concentration of medication is used.
- All pediatric ET doses are diluted with NS to achieve a minimum volume of 3 ml.
- * Volume rounded for ease of administration

Approved:

ZVL us

SUBJECT: TREATMENT PROTOCOL - PEDIATRIC (< 15 yo and < 37 kg) DRUG CHART

Date: 2005

Broselow color: WHITE

 Kg range:15-18kg Approx Kg:15 kg
 1st
 2nd
 3rd

 Approximate LBS:
 30 lbs
 Defib:
 30 J
 60 J
 60 J

 ET tube size:
 5
 Cardiovert:
 15 J
 30 J
 30 J
 30 J

NG tube size: 10 Fr (or clinically equivalent biphasic energy dose)

VOL	MEDICATION	DOSE	CONCENTRATION
0.5 ml	Adenosine IV fast 1st	1.5 mg	6 mg/2 ml
1 ml	Adenosine IV fast 2nd/3rd	3 mg	6 mg/2 ml
6 ml	Albuterol- Nebulized	5 mg	2.5 mg/3 ml
2.5 ml	Atrovent-Nebulized	0.05 mg	0.05 mg/2.5 ml
3 ml	Atropine (Bradycardia) IV	0.3 mg	1 mg/10 ml
0.8 ml	Atropine (OPP) IV/IM	0.3 mg	0.4 mg/1 ml
1.5 ml	Atropine ET	0.6 mg	0.4 mg/1 ml
0.3 ml	Benadryl IV/IM	15 mg	50 mg/1 ml
70 ml *	Charcoal PO	15 GM	50 GM/240 ml
30 ml	Dextrose 25% IV	7.5 GM	12.5 GM/50 ml
1.5 ml	Epinephrine IV	0.15 mg	1:10,000 1mg/10ml
1.5 ml	Epinephrine ET	1.5 mg	1:1,000 1mg/1ml
0.2 ml *	Epinephrine SQ	0.15 mg	1:1,000 1mg/1ml
2.5 ml	Epinephrine Nebulized	2.5 mg	1:1,000 1mg/1ml
0.8 ml *	Glucagon IM	0.75 mg	1 unit (mg)/1 ml
0.8 ml	Lidocaine 2% IV slow	15 mg	100 mg/5 ml
1.5 ml	Lidocaine 2% ET	30 mg	100 mg/5 ml
0.2 ml *	Morphine Sulfate IV/IM	1.5 mg	10 mg/1 ml
2.3 ml *	Morphine Sulfate PO	4.5 mg	10 mg/5 ml
1.5 ml	Narcan IV/DIVP/IM	1.5 mg	1 mg/1 ml
15 ml	Narcan IV titrated increments	1.5 mg	Diluted to 1 mg/10 ml
300 ml	Normal Saline Fluid Bolus		Standard
15 ml	Sodium Bicarb IV	15 mEq	1 meq/1 ml
0.3 ml	Versed IV slow	1.5 mg	5 mg/1 ml
0.6 ml	Versed IM	3 mg	5 mg/1 ml

- To assure accuracy be sure the designated concentration of medication is used.
- All pediatric ET doses are diluted with NS to achieve a minimum volume of 3 ml.
- * Volume rounded for ease of administration

Approved:

Date: 2005

SUBJECT: TREATMENT PROTOCOL – PEDIATRIC (< 15 yo and < 37 kg) DRUG CHART

Broselow color: BLUE

NG tube size: 12-14 Fr (or clinically equivalent biphasic energy dose)

VOL	MEDICATION	DOSE	CONCENTRATION
0.7 ml *	Adenosine IV fast 1st		
1.3 ml *		2 mg	6 mg/2 ml
	Adenosine IV fast 2nd/3rd	4 mg	6 mg/2 ml
6 ml	Albuterol-Nebulized	5 mg	2.5 mg/3 ml
2.5 ml	Atrovent- Nebulized	0.05 mg	0.05 mg/2.5 ml
4 ml	Atropine (Bradycardia) IV	0.4 mg	1 mg/10 ml
1 ml	Atropine (OPP) IV/IM	0.4 mg	0.4 mg/1 ml
2 ml	Atropine ET	0.8 mg	0.4 mg/1 ml
0.4 ml	Benadryl IV/IM	20 mg	50 mg/1 ml
100 ml *	Charcoal PO	20 GM	50 GM/240 ml
40 ml	Dextrose 25% IV	10 GM	12.5 GM/50 ml
2 ml	Epinephrine IV	0.2 mg	1:10,000 1mg/10ml
2 ml	Epinephrine ET	2 mg	1:1,000 1mg/1ml
0.2 ml	Epinephrine SQ	0.2 mg	1:1,000 1mg/1ml
5 ml	Epinephrine Nebulized	5 mg	1:1,000 1mg/1ml
1 ml	Glucagon IM	1 mg	1 unit (mg)/1 ml
1 ml	Lidocaine 2% IV slow	20 mg	100 mg/5 ml
2 ml	Lidocaine 2% ET	40 mg	100 mg/5 ml
0.2 ml	Morphine Sulfate IV/IM	2 mg	10 mg/1 ml
3 ml	Morphine Sulfate PO	6 mg	10 mg/5 ml
2 ml	Narcan IV/DIVP/IM	2 mg	1 mg/1 ml
20 ml	Narcan IV titrated increments	2 mg	Diluted to 1 mg/10 ml
400 ml	Normal Saline Fluid Bolus		Standard
20 ml	Sodium Bicarb IV	20 mEq	1 meg/1 ml
0.4 ml	Versed IV slow	2 mg	5 mg/1 ml
0.8 ml	Versed IM	4 mg	5 mg/1 ml

- To assure accuracy be sure the designated concentration of medication is used.
- All pediatric ET doses are diluted with NS to achieve a minimum volume of 3 ml.
- Volume rounded for ease of administration

Approved:

Date: 2005

SUBJECT: TREATMENT PROTOCOL – PEDIATRIC (< 15 yo and < 37 kg) DRUG CHART

Broselow color: ORANGE

Kg range: 24-29 kg Approx KG: 25 kg

Approximate LBS: 50 lbs Defib: 50 J 100 J 100 J ET tube size: 6 Cardiovert: 25 J 50 J 50 J

NG tube size: 14-18 Fr (or clinically equivalent biphasic energy dose)

VOL	MEDICATION	DOSE	CONCENTRATION
0.8 ml *	Adenosine IV fast 1st	2.5 mg	
1.7 ml *	Adenosine IV fast 1st Adenosine IV fast 2nd/3rd		6 mg/2 ml
6 ml	Albuterol- Nebulized	5 mg	6 mg/2 ml
2.5 ml		5 mg	2.5 mg/3 ml
	Atrovent-Nebulized	0.05 mg	0.05 mg/2.5 ml
5 ml	Atropine (Bradycardia) IV	0.5 mg	1 mg/10 ml
1.3 ml *	Atropine (OPP) IV/IM	0.5 mg	0.4 mg/1 ml
2.5 ml	Atropine ET	1 mg	0.4 mg/1 ml
0.5 ml	Benadryl IV/IM	25 mg	50 mg/1 ml
120 ml	Charcoal PO	25 GM	50 GM/240 ml
50 ml	Dextrose 25% IV	12.5 GM	12.5 GM/50 ml
2.5 ml	Epinephrine IV	0.25 mg	1:10,000 1mg/10ml
2.5 ml	Epinephrine ET	2.5 mg	1:1,000 1mg/1ml
10 ml	Epinephrine ETAD (#1 tube)	10 mg	1:1,000 1mg/1ml
	Dilute with NS to 20 ml		
0.25 ml	Epinephrine SQ	0.25 mg	1:1,000 1mg/1ml
5 ml	Epinephrine Nebulized	5 mg	1:1,000 1mg/1ml
1 ml	Glucagon IM	1 mg	1 unit (mg)/1 ml
1.3 ml *	Lidocaine 2% IV slow	25 mg	100 mg/5 ml
2.5 ml	Lidocaine 2% ET	50 mg	100 mg/5 ml
0.3 ml *	Morphine Sulfate IV/IM	2.5 mg	10 mg/1 ml
3.8 ml *	Morphine Sulfate PO	7.5 mg	10 mg/5 ml
2 ml	Narcan IV/DIVP/IM	2 mg	1 mg/1 ml
20 ml	Narcan IV titrated increments	2 mg	Diluted to 1 mg/10 ml
500 ml	Normal Saline Fluid Bolus		Standard
25 ml	Sodium Bicarb IV	25 mEq	1 meq/1 ml
0.5 ml	Versed IV slow	2.5 mg	5 mg/1 ml
1 ml	Versed IM	5 mg	5 mg/1 ml

- To assure accuracy be sure the designated concentration of medication is used.
- All pediatric ET doses are diluted with NS to achieve a minimum volume of 3 ml.
- * Volume rounded for ease of administration

Approved:

SUBJECT: TREATMENT PROTOCOL – PEDIATRIC (< 15 yo and < 37 kg) DRUG CHART

Date: 2005

Broselow color: GREEN

 Kg range: 30-36kg Approx Kg: 35 kg
 1st 2nd 3rd 2nd 3rd 70 J

 Approximate LBS: 70 lbs
 Defib: 70 J 140 J 140 J

 ET tube size: 6.5
 Cardiovert: 35 J 70 J 70 J

NG tube size: 18Fr (or clinically equivalent biphasic energy dose)

VOL	MEDICATION	DOSE	CONCENTRATION
1.2 ml *	Adenosine IV fast 1st	3.5 mg	6 mg/2 ml
2.3 ml *	Adenosine IV fast 2nd/3rd	7 mg	6 mg/2 ml
6 ml	Albuterol- Nebulized	5 mg	2.5 mg/3 ml
2.5 ml	Atrovent- Nebulized	0.05 mg	0.05 mg/2.5 ml
7 ml	Atropine (Bradycardia) IV	0.7 mg	1 mg/10 ml
1.8 ml *	Atropine (OPP) IV/IM	0.7 mg	0.4 mg/1 ml
3.5 ml	Atropine ET	1.4 mg	0.4 mg/1 ml
0.7 ml	Benadryl IV/IM	35 mg	50 mg/1 ml
170 ml *	Charcoal PO	35 GM	50 GM/240 ml
70 ml	Dextrose 25% IV	17.5 GM	12.5 GM/50 ml
3.5 ml	Epinephrine IV	0.35 mg	1:10,000 1mg/10ml
3.5 ml	Epinephrine ET	3.5 mg	1:1,000 1mg/1ml
10 ml	Epinephrine ETAD (#1 tube)	10 mg	1:1,000 1mg/1ml
	Dilute with NS to 20 ml		
0.3 ml	Epinephrine SQ	0.3 mg	1:1,000 1mg/1ml
5 ml	Epinephrine Nebulized	5 mg	1:1,000 1mg/1ml
1 ml	Glucagon IM	1 mg	1 unit (mg)/1 ml
1.8 ml *	Lidocaine 2% IV slow	35 mg	100 mg/5 ml
3.5 ml	Lidocaine 2% ET	70 mg	100 mg/5 ml
0.4 ml	Morphine Sulfate IV/IM	3.5 mg	10 mg/1 ml
5 ml	Morphine Sulfate PO	10 mg	10 mg/5 ml
2 ml	Narcan IV/DIVP/IM	2 mg	1 mg/1 ml
20 ml	Narcan IV titrated increments	2 mg	Diluted to 1 mg/10 ml
500 ml	Normal Saline Fluid Bolus		Standard
35 ml	Sodium Bicarb IV	35 mEq	1 meq/1 ml
0.7 ml	Versed IV slow	3.5 mg	5 mg/1 ml
1.4 ml	Versed IM	7 mg	5 mg/1 ml

- To assure accuracy be sure the designated concentration of the medication is used.
- All pediatric ET doses are diluted with NS to achieve a minimum volume of 3 ml.
- Volume rounded for ease of administration

Approved:

POLICY/PROCEDURE/PROTOCOL

SUBJECT: TREATMENT PROTOCOL -ABDOMINAL PAIN (NON-TRAUMATIC) Date: 7/1/05

BLS ALS

Ensure patent airway Monitor EKG/ O2 Saturation prn

O₂ and/or ventilate prn IV SO adjust prn

NPO For suspected intra-abdominal catastrophe or ?aortic aneurysm:

IV 500 ml fluid bolus for systolic BP< 90 SO. MR to maintain Anticipate vomiting

systolic BP > 90 SO

Consider transport to facility with surgical resources immediately

No. <u>S-120</u>

Page: 1 of 1

available

Approved:

SUBJECT: TREATMENT PROTOCOL -AIRWAY OBSTRUCTION (Foreign Body)

No. <u>S-121</u> Page: <u>1 of 1</u>

Date: 7/1/05

BLS ALS

For a <u>conscious</u> patient:

Reassure, encourage coughing

O₂ prn

Abdominal thrusts. (Chest thrusts in

obesity/pregnancy)

If patient becomes unconscious:

Abdominal thrusts. MR prn

If patient is <u>unconscious</u> when found:

Attempt to ventilate. (Reposition prn)

Abdominal thrusts prn

Once obstruction is removed:

High flow O₂, ventilate prn

If patient becomes unconscious or has a decreasing LOC:

Direct laryngoscopy and Magill forceps SO. MR prn

Once obstruction is removed:

Monitor EKG/O₂ Saturation prn IV <u>SO</u> adjust prn

Note: If unable to secure airway, transport STAT while continuing abdominal thrusts.

Approved:

DV Luc

SUBJECT: TREATMENT PROTOCOL -- ALLERGIC REACTION/ANAPHYLAXIS

BLS ALS

Ensure patent airway

0₂ and/or ventilate prn

Remove stinger/injection mechanism

May assist patient to self medicate own prescribed medication **ONE TIME ONLY**. Base Hospital contact required prior to any repeat dose.

Latex Sensitive Patients

Should be managed in a latex safe environment without compromising patient care. Prehospital personnel should inform the receiving facility personnel at the time of transfer if they become aware that the patient is latex sensitive.

See Management of Latex Sensitive Patients (Equipment List) S-105 Monitor EKG/ O₂ Saturation prn IV <u>SO</u> adjust prn Benadryl 50mg slow IVP/IM <u>SO</u>

Any respiratory distress with bronchospasm:

Albuterol 6ml 0.083% via nebulizer SO. MR SO

Atrovent 2.5ml 0.02% added to first dose of Albuterol via nebulizer SO

Severe respiratory distress with bronchospasm

OR

Exposure to known allergen with previous severe reaction and onset of any allergic symptoms (e.g. urticaria, swelling etc.):

No. S-122

Page: 1 of 1

Date: 7/1/05

If no known cardiac history and < 65yo:

Epinephrine 1:1,000 0.3mg SC per SO. MR x2 q10" SO

If KNOWN cardiac history and/or \geq 65yo:

Epinephrine 1:1,000 0.3mg SC per BHO. MR x2 q10" BHO

Anaphylaxis (shock or cyanosis):

Epinephrine 1:1,000 0.3 mg SC per SO. MR x2 q10" SO

IV 500 ml fluid bolus for systolic BP < 90 SO. MR to maintain systolic BP > 90 SO.

Epinephrine 1:10,000 0.1mg IVP BHO. MR x2 q3-5" BHO

OR

Epinephrine 1:1,000 2mg ET per BHO. MR x2 q3-5" BHO.

Dopamine 400mg/250ml @ 5-40 mcg/kg/min IV drip. Titrate systolic BP > 90 BHO

Approved:

XV "

SUBJECT: TREATMENT PROTOCOL --**ALTERED NEUROLOGIC FUNCTION (NON TRAUMATIC)** Page: 1 of 1 Date: 7/1/05

No. S-123

BLS ALS

Ensure patent airway, 02 and/or ventilate prn

Spinal immobilization prn Secretion problems, position on affected side

Do not allow patient to walk Restrain prn

Monitor EKG/ O₂ Saturation prn IV SO adjust prn Monitor blood glucose prn SO

Symptomatic ?opioids OD (excluding opioid dependent pain management patients):

Narcan 2mg IVP/direct IVP/IM SO. MR SO If patient refuses transport, give additional Narcan 2 mg IM SO

Hypoglycemia (suspected) or known to be <75mg/dl:

If patient is awake and has gag reflex, give oral glucose tabs or paste. Patient may eat or drink if

If patient is unconscious, NPO

CVA/Stroke:

For suspected stroke with major deficit with onset of symptoms known to be <2 hours in duration. expedite transport.

Make initial notification early to confirm destination.

Use the Prehospital Stroke Scale in the assessment of possible CVA patients (facial droop, arm drift and speech abnormalities).

Seizures:

Protect airway, and protect from

Treat associated injuries

Behavioral Emergencies (S-422):

Restrain only if necessary to prevent injury, report & document distal neurovascular status q15" Avoid unnecessary sirens Consider law enforcement support

Symptomatic ?opioids OD in opioid dependent pain management patients:

Narcan titrate 0.1mg increments up to 2mg IVP/direct IVP or IM SO, MR BHO

Hypoglycemia:

Symptomatic patient unresponsive to oral glucose agents:

D₅₀ 25Gm IVP SO if BS <75mg/dl

If patient remains symptomatic and BS remains <75 mg/dl MR SO

If no IV: Glucagon 1ml IM SO if BS < 75 mg/dl

Seizures:

For:

- A. Ongoing generalized seizure lasting >5" SO
- B. Focal seizure with respiratory compromise SO
- C. Recurrent seizures without lucid interval SO
- D. Eclamptic seizure of any duration SO

Give:

Versed 0.1mg/kg slow IVP SO to a max dose of 5mg (d/c if seizure stops) MR x1 in 10" SO

If no IV: Versed 0.2mg/kg IM SO to a max dose 10mg. MR x1 in 10" SO

Approved:

SUBJECT: TREATMENT PROTOCOL -- BURNS Date: 7/1/05

BLS ALS

Move to a safe environment
Break contact with causative agent
Ensure patent airway, O₂ and/or ventilate prn
Treat other life threatening injuries

Thermal burns:

Burns of < 10% body surface area, cool with non-chilled water or saline For burns \geq 10% body surface area, cover with <u>dry</u> dressing and keep warm

Do not allow the patient to become hypothermic

Chemical burns:

Flush with copious water Brush off dry chemicals then flush with copious amounts of water

Tar burns:

Cool with water, transport; do not remove tar

Monitor EKG/ O₂ Saturation prn IV <u>SO</u> adjust prn

Treat pain as per Pain Management Protocol (S-141)

No. <u>S-124</u>

Page: 1 of 1

For patients with \geq 20% 2nd or \geq 5% 3rd degree burns and \geq 15 yo:

IV 500 ml fluid bolus then TKO SO

In the presence of respiratory distress with bronchospasm:

Albuterol 6ml 0.083% via nebulizer \underline{SO} . MR \underline{SO} Atrovent 2.5ml 0.02% via nebulizer \underline{SO} added to first dose of Albuterol

Note: Base Hospital Contact and Transport (Per S-415):

Will be made to UCSD Base Hospital for patients meeting burn center criteria.

BURN CENTER CRITERIA

Patients with burns involving:

- \geq 20% 2nd or \geq 5% 3rd degree of BSA
- suspected respiratory involvement or significant smoke inhalation in a confined space
- significant injury of the face, hands, feet or perineum or circumferential
- significant electrical injury due to high voltage (greater than 110 volts)

Disposition:

Hyperbaric chamber for suspected CO poisoning.

Approved:	M w		
	EMS Medical Director	_	

POLICY/PROCEDURE/PROTOCOL

SUBJECT: TREATMENT PROTOCOL --**DISCOMFORT/PAIN OF SUSPECTED CARDIAC ORIGIN**

BLS ALS

Ensure patent airway

Monitor EKG/ O₂ Saturation prn

IV SO adjust prn 02 and/or ventilate prn.

If available, obtain 12 Lead EKG

Do not allow patient to walk

ASA 162mg chewable PO SO

If systolic BP ≥ 100, may assist patient to self medicate own prescribed medication **ONE TIME**

If systolic BP > 100:

NTG 0.4mg SL SO. MR q3-5" SO

NTG ointment 1" SO

If NTG x 3 ineffective or contraindicated:

MS 2-4 mg IVP \underline{SO} . MR to max of 10mg \underline{SO} . MR to max of 20 mg \underline{BHO}

No. S-126

Page: 1 of 1

Date: <u>7/1/05</u>

ONLY. Base Hospital contact required prior to any repeat dose.

If systolic BP < 100:

NTG 0.4mg SL BHO. MR BHPO

MS 2-4mg IVP BHO. MR to max of 20mg BHO

Discomfort/Pain of ? Cardiac Origin with Associated Shock:

IV 250 ml fluid bolus with clear lungs SO. MR to maintain systolic BP >90 SO

If BP refractory to fluid boluses:

Dopamine 400mg/250ml @ 5-40 mcg/kg/min IV drip.

Titrate systolic BP ≥ 90 BHO

Note: If discomfort/pain relieved with NTG SL (prior to arrival or EMS administered), continue treatment with NTG ointment and ASA. ASA should be given regardless of prior daily dose(s).

If any patient has taken a sexual enhancement medication such as Viagra, Cialis, Levitra within 48 hours, NTG is contraindicated.

Approved:

Date: 7/1/05

No. <u>S-127</u>

Page: 1 of 4

Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

BLS **ALS**

O₂ and/or ventilate prn

Monitor EKG/ O₂ Saturation prn

IV 250 ml fluid bolus with clear lungs SO. MR to maintain systolic BP > 90 SO

A. Unstable Bradycardia with Pulse (Systolic BP<90 and chest pain, dyspnea or altered LOC):

If bradycardia is severe and patient is unconscious, begin chest compressions Atropine 0.5 -1mg IVP for pulse <60 bpm SO. MR q3-5" to max of 3mg SO

Atropine 1-2 mg ET for pulse <60 bpm SO. MR q3-5" to max of 6mg administered dose SO

If rhythm refractory to Atropine 1 mg:

External cardiac pacemaker, if available, may use per BHPO If capture occurs sedate with Versed 1-5 mg IVP BHPO

Dopamine 400mg/250ml at 5-40mcg/kg/min IV drip, titrate to systolic BP ≥ 90 (after max Atropine or initiation of pacing) BHO

B. Supraventricular Tachycardia (SVT):

VSM SO. MR SO

Adenosine 6mg rapid IVP, followed with 20ml NS IVP SQ (Patients with history of bronchospasm or COPD BHO)

Adenosine 12mg rapid IVP followed with 20ml NS IVP SO

If no sinus pause, MR x1 in 1-2" SO

If patient unstable with severe symptoms OR rhythm refractory to treatment:

Conscious (Systolic BP<90 and chest pain, dyspnea or altered LOC):

Versed 1-5 mg slow IVP prn precardioversion BHO

If age > 60 consider lower dose with attention to age and hydration status Synchronized cardioversion at 100 J (or clinically equivalent biphasic energy dose) BHO MR at 200, 300, 360 J (or clinically equivalent biphasic energy dose) BHO

Unconscious:

Synchronized cardioversion at 100 J (or clinically equivalent biphasic energy dose) SO MR at 200, 300, 360 J (or clinically equivalent biphasic energy dose) SO. MR BHO

Approved:

Date: 7/1/05

No. <u>S-127</u>

Page: 2 of 4

Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

BLS ALS

O₂ and/or ventilate prn

C. <u>Unstable Atrial Fibrillation/ Atrial Flutter (Systolic BP<90 and chest pain, dyspnea or altered LOC):</u>

In presence of ventricular response with heart rate >180:

Conscious:

Versed 1-5 mg slow IVP prn pre-cardioversion <u>BHPO</u>
If age > 60 consider lower dose with attention to age and hydration status

Synchronized cardioversion at 100 J (or clinically equivalent biphasic energy dose) BHPO MR at 200, 300, 360 J (or clinically equivalent biphasic energy dose) BHPO

Unconscious:

Synchronized cardioversion at 100 J (or clinically equivalent biphasic energy dose) <u>SO</u>.

MR at 200, 300, 360 J (or clinically equivalent biphasic energy) SO. MR BHO

D. Ventricular Tachycardia (VT):

Precordial thump for witnessed onset <u>SO</u>

Lidocaine 1.5 mg/kg slow IVP \underline{SO} . MR at 0.5mg/kg slow IVP q8-10" to a max of 3mg/kg (including initial bolus) \underline{SO}

OR

Lidocaine 3mg/kg ET \underline{SO} . MR at 1mg/kg q8-10" not to exceed 6 mg/kg administered dose (including initial bolus) \underline{SO}

If patient unstable with severe symptoms:

Conscious (Systolic BP<90 and chest pain, dyspnea or altered LOC):

Versed 1-5 mg slow IVP prn pre-cardioversion SO

If age \geq 60 consider lower dose with attention to age and hydration status Synchronized cardioversion at 100 J (or clinically equivalent biphasic energy dose) \underline{SO} . MR at 200, 300, 360 J (or clinically equivalent biphasic energy dose) \underline{SO} . MR \mathbb{BHO}

Unconscious:

Synchronized cardioversion at 100 J (or clinically equivalent biphasic energy dose)

SO.

MR at 200, 300, 360 J (or clinically equivalent biphasic energy dose) SO. MR BHO

Approved:

EMS Medical Director

Date: 7/1/05

No. <u>S-127</u>

Page: 3 of 4

Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

BLS ALS

(?conscious/pulseless):

E. VF/ Pulseless VT or cardiac arrest with no monitor available:

Precordial thump for witnessed onset

CPR

Defibrillate x3 prn SO

AED if

Intubate SO

available, may use

NG prn SO

Assist ventilation

Epinephrine 1:10,000 1mg IVP MR q3-5" SO

OR

Epinephrine 1:1,000 2mg ET, MR q3-5"SO

OR

Epinephrine 1:1000 10mg (dilute to 20ml) ETAD - esophageal placement via port 1 (blue) MR q5" <u>SO</u>

If monitor available:

Lidocaine 1.5mg/kg IVP. MR x1 in 3-5" SO

OR

Lidocaine 3mg/kg ET. MR x1 in 3-5" SO

F. <u>Post conversion</u> VT/VF with pulse \geq 60 (including witnessed spontaneous conversion, precordial thump, AED & AICD). If initial dose already given, continue with repeat doses as appropriate.

Lidocaine 1.5mg/kg IVP <u>SO</u>. MR at 0.5mg/kg IVP q8-10", to a max of 3mg/kg (including initial bolus) <u>SO</u>

OR

Lidocaine 3mg/kg ET \underline{SO} . MR at 1mg/kg q8-10" not to exceed 6 mg/kg administered dose (including initial bolus) \underline{SO}

Note: For patients in nonperfusing rhythms:

- Consider early Base Hospital contact for disposition/pronouncement at scene
- Flush line after medication administration

Approved:	en JU
	EMS Medical Director

Date: 7/1/05

No. <u>S-127</u>

Page: 4 of 4

Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

BLS ALS

CPR

Assist ventilation

G. Pulseless Electrical Activity (PEA):

Intubate SO

NG prn SO

Epinephrine 1:10,000 1mg IVP. MRq 3-5" SO

OR

Epinephrine 1:1,000 2mg ET. MRq 3-5" SO

OR

Epinephrine 1:1000 10mg (dilute to 20ml) ETAD - esophageal placement via port 1 (blue). MR q5" <u>SO</u>.

For HR<60/min:

Atropine 1mg IVP. MRq 3-5" to max 3mg SO

OR

Atropine 2mg ET. MR q3-5" to max 6mg administered dose SO

NaHCO₃ 1mEq/kg IVP <u>SO</u>. MR 0.5 mEq/kg IVP q10" BHO

Pronouncement at scene BHPO

H. <u>Asystole (consider early Base Hospital contact for disposition/pronouncement at scene).</u>

Intubate <u>SO</u> NG prn SO

Epinephrine 1:10,000 1mg IVP MR q3-5" SO.

OR

Epinephrine 1:1000 2mg ET, MR q3-5" SO.

OR

Epinephrine 1:1000 10mg (dilute to 20ml) ETAD - esophageal placement via port 1 (blue). MR q5" \underline{SO} .

Atropine 1mg IVP. MR q3-5" SO to a max of 3mg

OR

Atropine 2mg ET. MR q3-5" SO to a max of 6mg administered dose

Pronouncement at scene BHPO

Transport BHPO

Note: For patients in nonperfusing rhythms:

- Consider early Base Hospital contact for disposition/pronouncement at scene
- Flush line after medication administration

Approved:	00
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	EMS Medical Director

No. <u>S-129</u> POLICY/PROCEDURE/PROTOCOL Page: 1 of 1

> **BLS ALS**

TREATMENT PROTOCOL -- ENVENOMATION INJURIES

O₂ and/or ventilate prn.

Jellyfish sting:

SUBJECT:

Rinse with alcohol; do not rub or apply pressure

Stingray or Sculpin injury:

Heat as tolerated

Snakebites:

Mark proximal extent of swelling

Keep involved extremity at heart level and immobile

IV SO adjust prn

Treat pain as per Pain Management Protocol (S-141)

Date: 7/1/05

Approved:

SUBJECT: TREATMENT PROTOCOL – ENVIRONMENTAL EXPOSURE

Date: 7/1/05

No. S-130

Page: 1 of 1

BLS ALS

Ensure patent airway

0₂ and/or ventilate prn

Remove excess/wet clothing

Heat Exhaustion:

Cool gradually

Fanning, sponging with tepid water

Avoid shivering

If conscious, give small amounts of fluids

Heat Stroke:

Rapid cooling

Ice packs to carotid, inguinal and axillary regions

Sponge with tepid water

Fan, avoid shivering

Cold Exposure:

Gentle warming

Blankets, warm packs -not to exceed 110 F

Dry dressings

Avoid unnecessary movement or rubbing

If alert, give warm liquids

If severe, NPO

Prolonged CPR may be indicated

Monitor EKG/O2 Saturation prn

IV SO adjust prn

Severe Hypothermia with Cardiac Arrest:

Hold medications

Continue CPR

If defibrillation needed, limit to 3 shocks

maximum

Transport

Note: Consider fluid resuscitation in young healthy adults in high heat/high exertion situations even if BP is within normal limits.

Approved:

No. S-131 POLICY/PROCEDURE/PROTOCOL Page: 1 of 1

BLS ALS

SUBJECT: TREATMENT PROTOCOL -- HEMODIALYSIS PATIENT

Ensure patent airway, give O₂, ventilate if necessary

Monitor EKG/O₂ Saturation prn

FOR DEFINITIVE THERAPY ONLY:

IV access in arm that does not have graft/AV fistula SO. Adjust prn

If Unable:

Access Percutaneous Vas Catheter SO if present (aspirate 5 ml PRIOR to infusion)

Date: 7/1/05

OR

Access graft/AV fistula SO

Fluid overload with rales:

Treat as per S-136

Suspected Hyperkalemia (widened QRS complex and peaked T-waves):

NaHCO₃ 1mEq/kg IV push x1 BHO CaCl₂ 500mg IVP per BHO. MR BHO

Note: Consider patient's hospital of choice for transport.

Vas Cath contains concentrated dose of Heparin which must be aspirated PRIOR to infusion.

Approved:

SAN DIEGO COUNTY EMERGENCY MEDICAL SERVICES POLICY/PROCEDURE/PROTOCOL

SUBJECT: TREATMENT PROTOCOL -NEAR DROWNING/DIVING RELATED INCIDENTS

No. <u>S-132</u> Page: <u>1 of 1</u>

Date: 7/1/05

BLS ALS

100% O ₂ , and/or ventilate prn	Monitor EKG/ O ₂ Saturation prn	
Spinal immobilization when indicated	IV <u>SO</u> adjust prn	

<u>Diving Victims</u>: Any victim who has breathed sources of compressed air below the water's surface and presents with the following:

<u>Minor presentation</u>: minimal localized joint pain, mottling of the skin surface, localized swelling with pain; none of which are progressive.

<u>Major presentation</u>: symptoms listed above that are severe and/or rapidly progressing, vertigo, altered LOC, progressive paresthesia, paralysis, severe SOB, blurred vision, crepitus, hematemesis, hemoptysis, pneumothorax, trunk pain, or girdle or band-like burning discomfort.

Disposition of Diving Victims:

Major presentation:

All patients with a "major" presentation should be transported to UCSD-Hillcrest Trauma issues are secondary in the presence of a "Major" presentation If the airway is unmanageable, divert to the closest BEF

Minor presentation:

Major trauma candidate: catchment trauma center

Non-military patients: routine

Active Duty Military Personnel: transport to the Military Duty Recompression Chamber if possible. The Base Hospital will contact the Duty Recompression Chamber at (619) 556-7130 to determine chamber location. Paramedics/Base Hospital shall transfer care to Diving Medical Officer (or designee) upon arrival to chamber. Hyperbaric treatment may begin in accordance with military medical protocols.

Naval Hyperbaric Chamber Locations:

North Island Naval Air Station

Naval Station 32nd Street and Harbor Drive

Naval Special Warfare - Coronado

Note: If possible, obtain dive computer or records.

Hyperbaric Chambers must be capable of recompression to 165 ft.

EMS Medical Director
&M_ms

POLICY/PROCEDURE/PROTOCOL

SUBJECT: TREATMENT PROTOCOL -- OBSTETRICAL EMERGENCIES Date: 7/1/05

BLS ALS

MOTHER:

Ensure patent airway. O₂, ventilate prn If no time for transport and delivery is imminent

(crowning and pushing), proceed with delivery

If no delivery, transport on left side

Routine Delivery:

Massage fundus if placenta delivered (Do not wait on scene)

Post Partum Hemorrhage:

Massage fundus vigorously Baby to breast Trendelenburg position

Eclampsia (seizures):

Protect airway, and protect from injury Spinal immobilization when indicated

STAT transport for third trimester bleeding

MOTHER:

IV SO adjust prn

Direct to Labor/Delivery area per \mathbb{BHO} if \geq 20 weeks gestation.

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Page: 1 of 1

Eclampsia (seizures):

Versed 0.1mg/kg slow IVP to a max dose of 5mg (d/c if seizure stops) SO. MR x1 in 10" SO

If no IV

Versed 0.2mg/kg IM to a max dose of 10 mg \underline{SO} . MR x1 in 10" \underline{SO}

Note: If time allows, place identification bands on mother and infant.

Approved:

SUBJECT: TREATMENT PROTOCOL -- POISONING/OVERDOSE

BLS ALS

Ensure patent airway O₂ and/or ventilate prn

Ingestions:

Identify substance Consider transport on LEFT side for ingestions

Skin:

Remove clothes
Flush with copious water
Brush off dry chemicals then flush with
copious amounts of water

Inhalation/Smoke/Gas/Toxic

Substance: Move patient to safe environment 100% O₂ via mask Consider transport to facility with Hyperbaric chamber

?Tricyclic OD: Hyperventilate

Contamination with commercial grade ("low level") radioactive material:

Patients with mild injuries may be decontaminated (removal of contaminated clothing, brushing off of material) prior to treatment and transport. Decontamination proceedings SHALL NOT delay treatment and transport of patients with significant or life-threatening injuries. Treatment of significant injuries is always the priority.

Monitor EKG/ O₂ Saturation prn

IV SO adjust prn

Ingestions:

Charcoal 50 Gm PO (excluding isolated alcohol, heavy metal, caustic agents, hydrocarbons or iron ingestion) <u>SO</u>. Assure patient has gag reflex and is cooperative

No. <u>S-134</u> Page: <u>1 of 1</u>

Date: 7/1//05

Symptomatic ?opioid OD (excluding opioid dependent pain management patients):

Narcan 2mg IVP/direct IVP/IM SO. MR SO

If patient refuses transport, give additional Narcan 2 mg IM \underline{SO}

Symptomatic ?opioid OD in opioid dependent pain management patients:

Narcan titrate 0.1 mg up to 2mg IVP/direct IVP or IM <u>SO</u>. MR BHO

Symptomatic Organophosphate poisoning:

Atropine 2mg IVP/IM <u>SO</u>. MR x2 q3-5" <u>SO</u>. MR q3-5" BHO **OR**

Atropine 4mg ET SO. MR x2 g3-5" SO. MR g3-5" BHO

Extrapyramidal reactions:

Benadryl 50mg slow IVP/IM SO

?Tricyclic OD with cardiac effects (e.g. hypotension, heart block, or widened QRS):

NaHCO₃ 1mEg/kg IVP BHO

NOTE: For scene safety, consider Haz Mat activation as needed

Approved:

SUBJECT: TREATMENT PROTOCOL -PRE-EXISTING MEDICAL INTERVENTIONS

No. <u>S-135</u> Page: <u>1 of 1</u>

Date: 7/1/05

BLS ALS

Proceed with transport when person responsible for operating the device (the individual or another person) is able to continue to provide this function during transport.

Previously established electrolyte and/or glucose containing peripheral IV lines:

Maintain at preset rates Turn off when indicated

Previously applied dermal medication delivery systems:

Remove dermal NTG when indicated (CPR, shock) SO

<u>Previously established IV medication delivery systems and/or other</u> preexisting treatment modalities with preset rates:

If the person responsible for operating the device is unable to continue to provide this function during transport, contact the BH for direction.

BH may ONLY direct BLS personnel to

- Leave device as found OR turn the device off; THEN,
- 2. Transport patient OR wait for ALS arrival.

Transports to another facility or to home:

No wait period is necessary for routine oral/dermal medications or completed aerosol treatments.

Check for prior IV, IM, SC, and non-routine PO medication delivery to assure minimum wait period of 30".

If there is a central line, the tip of which lies in the central circulation, the catheter MUST be capped with a device which occludes the end.

IV solutions with added medications OR other ALS treatment/monitoring modalities require ALS personnel (or RN/MD) in attendance during transport.

Previously established electrolyte and/or glucose containing IV solutions:

Adjust rate or d/c BHO

Previously applied topical medication delivery systems:

Remove dermal NTG when indicated <u>SO</u>
Remove other dermal medications BHO

Pre-existing external vascular access (considered to be IV TKO):

To be used for definitive therapy ONLY

Previously established and labeled IV medication delivery systems with preset rates and/or other preexisting treatment modalities:

d/c BHO

If no medication label or identification of infusing substance:

d/c SO

Note: Consider early base hospital contact.

Approved:

SUBJECT: TREATMENT PROTOCOL -- RESPIRATORY DISTRESS

BLS ALS

Ensure patent airway

Reassurance

O₂ and/or ventilate prn

Hyperventilation:

Coaching/reassurance Remove patient from causative environment. Consider underlying

medical problem.

Toxic Inhalation (CO exposure, smoke gas, etc.):

Consider transport to facility with hyperbaric chamber

Known asthmatics:

Consider oral hydration

Respiratory Distress with croup-like cough:

Aerosolized saline or water 5ml via oxygen powered nebulizer/mask.

MR prn

Monitor EKG/ O2 Saturation prn

IV <u>SO</u>, adjust prn Intubate <u>SO</u> prn NG prn per <u>SO</u>

Respiratory Distress with Rales (?cardiac origin):

If systolic BP > 100:

NTG 0.4mg SL SO. MR q3-5" SO

NTG ointment 1" SO

Lasix 40mg or double daily dose to maximum of 100mg IVP SO MR

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Page: 1 of 1

Date: 7/1/05

to maximum of 100 mg total dose SO

MS 2-4 mg IVP \underline{SO} . MR to max of 10mg \underline{SO} MR to max of 20 mg

BHO

If systolic BP < 100:

NTG 0.4mg SL per BHO. MR BHPO

Lasix 40mg or double daily dose to maximum of 100mg IVP BHO

MS 2-4mg IVP BHO. MR to max of 20mg BHO

Respiratory Distress with Bronchospasm (?respiratory etiology):

Albuterol 6ml 0.083% via nebulizer SO. MR SO

Atrovent 2.5ml 0.02% via nebulizer SO added to first dose of

Albuterol

If severe respiratory distress with bronchospasm or inadequate response to Albuterol/Atrovent consider:

If no known cardiac history and < 65yo:

Epinephrine 0.3mg 1:1000 SC SO. MR x2 g10" SO

If KNOWN cardiac history and/or ≥ 65yo:

Epinephrine 0.3mg 1:1000 SC BHO. MR x2 q10" BHO

Note: If any patient has taken a sexual enhancement medication such as Viagra, Cialis, Levitra within 48 hours, NTG is contraindicated.

If patient on Bumex, give 100 mg of Lasix.

Approved:

SUBJECT: TREATMENT PROTOCOL -- SEXUAL ASSAULT

No. <u>S-137</u> Page: <u>1 of 1</u>

-- SEXUAL ASSAULT Date: 7/1/05

BLS / ALS

Ensure patent airway

0₂ and/or ventilate prn

Advise patient not to bathe or change clothes

Consult with law enforcement on scene for evidence collection

If the patient requires a medical evaluation, transport to the closest, most appropriate facility. Law enforcement will authorize and arrange an evidentiary exam after the patient is stabilized. If only evidentiary exam is needed, may release to law enforcement for transport to a SART facility.

Approved:

SUBJECT: TREATMENT PROTOCOL -- SHOCK

No. <u>S-138</u> Page: <u>1 of 1</u>

Date: 7/1/05

BLS

ALS

Shock:

O₂ and/or ventilate prn Control obvious external bleeding Treat associated injuries NPO, anticipate vomiting Shock position Remove transdermal NTG patch Monitor EKG/ O₂ Saturation prn

Shock: Hypovolemic:

IV 500 ml fluid bolus \underline{SO} . MR to maintain systolic BP \geq 90 \underline{SO}

Shock: Normovolemia (anaphylactic shock, neurogenic shock):

 $\overline{\text{IV 500 ml}}$ fluid bolus $\underline{\text{SO}}$. MR to maintain systolic BP \geq 90 $\underline{\text{SO}}$

If BP refractory to fluid boluses:

Dopamine 400mg/250ml @ 5-40 mcg/kg/min IV drip. Titrate systolic BP \geq 90 BHO

Shock (? cardiac etiology, septic shock):

IV 250 ml fluid bolus with clear lungs \underline{SO} . MR to maintain systolic BP \geq 90 \underline{SO}

If BP refractory to fluid bolus:

Dopamine 400mg/250ml @ 5-40 mcg/kg/min IV drip. Titrate systolic BP \geq 90 BHO

Approved:

on MR

SUBJECT: TREATMENT PROTOCOL -- TRAUMA

BLS ALS

Ensure patent airway, protecting C-spine

Spinal immobilization prn

O₂ and/or ventilate prn

Control obvious bleeding

Abdominal Trauma: Cover eviscerated bowel with saline pads

<u>Chest Trauma:</u> Cover open chest wound with three-sided occlusive dressing; release dressing if ?tension pneumothorax develops.

Extremity Trauma:

Splint neurologically stable fractures as they lie. Use traction splint as indicated.

Grossly angulated long bone fractures with neurovascular compromise may be reduced with gentle unidirectional traction for splinting per \mathbb{BHO} .

Impaled Objects:

Immobilize & leave impaled objects in place. Remove <u>BHPO</u> **Exception**: may remove impaled object in face/cheek, or from neck if there is total airway obstruction.

Neurological Trauma (head and spine injuries):

Ensure adequate oxygenation without hyperventilating patient.

<u>Pregnancy of ≥ 6mo:</u> Where spinal immobilization precaution is indicated, tilt on spine board 30 degrees, left lateral decubitus.

Traumatic Arrest: CPR. d/c BHPO

Monitor EKG/ O_2 Saturation prn IV <u>SO</u> adjust prn

IV 500 ml fluid bolus \underline{SO} . MR to maintain systolic BP > 90 \underline{SO}

No. S-139

Page: 1 of 1

Date: 7/1/05

Treat pain as per Pain Management Protocol (S-141)

Crush injury with extended entrapment \geq 2 hours of extremity or torso:

IV 1000 ml fluid bolus when extremity released \underline{SO} NaHCO₃ 1mEg/kg IVP BH \odot

Grossly angulated long bone fractures

Reduce with <u>gentle</u> unidirectional traction for splinting <u>SO</u>

Impaled Objects:

Remove impaled object in face/cheek or neck if ventilation compromised <u>SO</u>

Severe Respiratory Distress with unilateral absent breath sounds and systolic BP < 90 in intubated or positive pressure ventilated patients:

Needle thoracostomy BHO

Traumatic Arrest:

Consider pronouncement at scene BHPO

TRANSPORT GUIDELINES:

Routine Disposition-Pediatric patients who meet criteria outlined in T-460 "Identification of the Pediatric Trauma Center Candidate" should be delivered to the Designated Pediatric Trauma Center, EXCEPT in the following situations:

1. Adult + Child:

- a. If there is a single ambulance (air/ground) with both a pediatric trauma center candidate AND an adult trauma center candidate, the ambulance should first deliver the more critical patient to the appropriate facility. If both patients are critical, or if there are other questions, both may be delivered to the designated adult trauma center.
- b. Field personnel should consider splitting the team using additional ALS transport vehicles, or aeromedical resources to transport the pediatric patient to pediatric trauma facility and the adult to the catchment area trauma facility.
- Bypass/Diversion: If the designated pediatric trauma center is "on bypass", pediatric trauma candidates should be delivered to UCSD.

Approved:

SUBJECT: TREATMENT PROTOCOL --

Page: 1 of 1

Date: 7/1/05

No. S-140

BLS/ALS

A. One person will assume responsibility for all scene medical communication

TRIAGE, MULTIPLE PATIENT INCIDENT

- B. Only one (1) BH will be contacted during the entire incident including during transport
- C. Prehospital providers will utilize Simple Triage and Rapid Transport (START) guidelines to determine priorities of treatment and transport
- D. If staffing resources are limited, CPR need not be initiated for arrest victims, however, if CPR has been initiated prior to arrival of ALS personnel or briefly during assessment, discontinue only if one of the following occurs or is present*:
 - 1) subsequent recognition of obvious death SO
 - 2) BHPO
 - 3) presence of Advance Health Care Directive, DNR Form/Order or Medallion SO
 - 4) lack of response to brief efforts in the presence of any other potentially salvageable patient requiring intervention <u>SO</u>
- E. If a paramedic team is split, contact the BH to confirm destination prior to leaving or ASAP enroute <u>SO</u> (If a paramedic team is split, each paramedic may still perform ALS duties)
- F. Radio communication for multi-patient incident need only include the following on each patient:
 - 1. patient number assignment (i.e., #1, #2 . . .)
 - 2. age
 - 3. sex
 - 4. mechanism
 - 5. chief complaint
 - 6. abnormal findings
 - 7. treatment initiated
 - 8. ETA, destination, and transporting unit number
- G. Radio Communication for Annex D activation need only include the following on each patient:
 - 1. patient number if assigned (i.e., #1, #2 . . .)
 - 2. triage category (Immediate, Delayed, Minor)
 - 3. destination
 - 4. transporting unit number

Approved:

^{*} Reference Policy S-402 Prehospital Determination of Death

No. <u>S-141</u> Page: <u>1 of 1</u>

Date: 7/1/05

BLS ALS

Assess level of pain using standardized pain scale provided below

Ice, immobilize and splint when indicated

Elevation of extremity trauma when indicated

Pain score assessment of < 5:

Continue to monitor and reassess pain as appropriate

For treatment of pain score assessment of ≥ 5 with $BP \geq 100$ systolic:

MS 2-10mg in 2-4 mg increments IVP to max of 10mg \underline{SO} MR to max of 20mg \mathbb{BHO}

OR

MS 5mg IM \underline{SO} . MR to max of 10mg \underline{BHO}

OR

MS 10mg PO SO. MR to max of 30mg BHO

BHPO for:

- Chronic pain states
- Isolated head injury
- Acute onset severe headache
- Drug/ETOH intoxication
- Multiple trauma with GCS <15
- Suspected active labor
- Abdominal pain

Note: These orders may be implemented after the paramedic assesses the level of pain and determines if patient agrees to treatment. ALL patients with a traumatic or pain-associated chief complaint will have a paramedic assessment of level of pain using a standardized pain scale. All patients will be offered treatment for pain, unless contraindicated, and level of pain relief will be assessed after each treatment is given and prior to the end of the run.

The parenteral dose relative strength of MS is three times the oral dose of MS.



Approved:

SUBJECT: TREATMENT PROTOCOL NERVE AGENT Date: 7/1/05

BLS / ALS

Only prehospital personnel who have completed County of San Diego approved training specific to the use of Atropine and 2 PAM CI Autoinjectors are authorized to utilize this protocol.

Upon identification of a scene involving suspected or known exposure of nerve agent:

Isolate Area

Notify dispatch of possible Mass Casualty Incident with possible Nerve Agent involvement.

DO NOT ENTER AREA

If exposed:

Blot off agent

Strip off all clothing

Flush area with large amounts of water Cover affected area

If you begin to experience signs/symptoms of nerve agent exposure:

Increased secretions (tears, saliva, runny nose, sweating) Diminished vision

SOB

Nausea, vomiting diarrhea
Muscle twitching/weakness
Notify the Incident Commander (or
dispatch if no IC) immediately of your
exposure and declare yourself a
patient

Self Treat Immediately per the following Acuity Guidelines:

Potential:

No signs & symptoms Monitor

Mild:

Miosis, rhinorrhea, increasing SOB, fasiculations, sweating Atropine Autoinjector (or 2 mg) IM 2-PAM CI Autoinjector (or 600 mg) IM Triage, decontaminate and treat patient based on severity of victim SO

No. S-150

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Potential:

No signs & symptoms Monitor

Mild:

Miosis, rhinorrhea, increasing SOB, fasiculations, sweating Atropine Autoinjector (or 2 mg) IM 2-PAM CI Autoinjector (or 600 mg) IM

Moderate:

Miosis, rhinorrhea, SOB/wheezing, increased secretions, fasiculations, muscle weakness, GI effects
Atropine Autoinjector (or 2 mg) IM, MR x1 in 5-10"
2-PAM CI Autoinjector (or 600 mg) IM, MR x1 in 5-10"
Valium Autoinjector (or 10 mg) IM*

Severe:

Unconscious, seizures, flaccid, apnea Initial dosing:

Atropine Autoinjector (or 2 mg) IM x3 doses in succession 2-PAM CI Autoinjector (or 600 mg) IM x3 doses in succession Versed 10mg IM for seizure activity

O₂/Intubate.

Ongoing treatment:

Atropine Autoinjector (or 2 mg) IM, MR q3-5" until secretions diminish 2-PAM CI Autoinjector (or 600 mg) IM, MR x1 in 3-5" For continuous seizure activity MR Versed 10 mg IM x1 in 10"

Pediatric doses: Weight	<u>Atropine</u>	<u>2-PAM CI</u>	Versed
<20kg	0.5mg	100mg	2.5mg
20-39kg	1mg	300mg	5.0mg
>40ka	2mg	600ma	10ma

For doses less than the amount in the Autoinjector, use the medication vial and administer with a syringe.

Consider: For frail, medically compromised, hypertensive or patients with renal failure administer half doses of Atropine and 2PAM CI

Approved:	^^ .	
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^{*} Valium Autoinjectors will be utilized only by MMST personnel for self-administration for seizure control. The Valium Autoinjectors will be prescribed for individual team members by the MMST Physicians.

POLICY/PROCEDURE/PROTOCOL

SUBJECT: PEDIATRIC TREATMENT PROTOCOL -- AIRWAY OBSTRUCTION

No. <u>S-160</u> Page: <u>1 of 1</u>

Date: 7/1/05

BLS ALS

For a conscious patient:

Reassure, encourage coughing O₂ prn

5 Abdominal thrusts only if complete airway obstruction. MR prn (Chest thrusts in obesity/pregnancy)

If patient <u>becomes unconscious OR has a</u> decreasing <u>LOC</u>:

5 Abdominal thrusts if complete airway obstruction. MR prn

If patient is <u>unconscious</u> when found: Attempt to ventilate. (Reposition prn) 5 Abdominal thrusts. MR prn

NOTE:

5 Chest thrusts and back blows for infants <1 year. MR prn

Once obstruction is removed:

High flow O₂, ventilate prn

NOTE: If suspected epiglottitis: Place patient in sitting position Do not visualize the oropharynx STAT transport

If patient becomes unconscious or has a decreasing LOC:

Direct laryngoscopy and Magill forceps SO. MR prn

Once obstruction is removed:

Monitor EKG/O₂ Saturation prn

IV SO adjust prn

Note: If unable to secure airway, transport STAT while continuing abdominal thrusts.

Approved:

Date: <u>7/1/05</u>

SUBJECT: PEDIATRIC TREATMENT PROTOCOL -ALTERED NEUROLOGIC FUNCTION (NON TRAUMATIC)

BLS ALS

Ensure patent airway, O₂ and/or ventilate prn.

Spinal immobilization when indicated. Secretion problems, position on affected side.

Do not allow patient to walk. Restrain prn.

Hypoglycemia (suspected):

If patient is awake and has gag reflex, give oral glucose paste or tabs.
Patient may eat or drink if able.
If patient is unconscious, NPO

Seizures:

Protect airway, and protect from injury Treat associated injuries Spinal immobilization prn If febrile, remove excess clothing/covering

Behavioral Emergencies:

Restrain only if necessary to prevent injury.

Avoid unnecessary sirens

Consider law enforcement support

IV <u>SO</u> adjust prn

Monitor EKG/ O₂ Saturation /blood glucose prn

<u>Symptomatic ?opioid OD (excluding opioid dependent pain management patients):</u>

Narcan per drug chart direct IVP/IV/IM SO. MR SO

<u>Symptomatic? opioids OD in opioid dependent pain</u> management patients:

Narcan titrate per drug chart IVP/IV/IM (dilute IV dose to 10ml with NS) SO. MR BHO

Hypoglycemia:

Symptomatic patient unresponsive to oral glucose agents: D_{25} per drug chart IVP <u>SO</u> if BS <75mg/dl (Infant <60 mg/dl) If patient remains symptomatic and BS remains <75 mg/dl (Infant <60 mg/dl) MR <u>SO</u>

If no IV: Glucagon per drug chart IM \underline{SO} if BS < 75 mg/dl (Infant <60 mg/dl)

Seizures:

For:

- A. Ongoing generalized seizure lasting >5" SO
- B. Focal seizure with respiratory compromise <u>SO</u>
- C. Recurrent seizures without lucid interval SO

GIVE:

Versed per drug chart slow IVP, (d/c if seizure stops) \underline{SO} . MR x1 in 10" \underline{SO}

If no IV

Versed per drug chart IM SO. MR x1 in 10" SO

Approved:

77100

SAN DIEGO COUNTY EMERGENCY MEDICAL SEDRVICES POLICY/PROCEDURE/PROTOCOL

SUBJECT: TREATMENT PROTOCOL Date: <u>7/1/05</u> PEDIATRIC ALS-ALLERGIC REACTION

BLS ALS

Ensure patent airway

Monitor EKG/ O₂ Saturation prn

0₂ and/or ventilate prn

IV SO adjust prn

Remove sting/injection mechanism

Benadryl per drug chart IVP/IM SO

May assist patient to self medicate own prescribed

Any respiratory distress with bronchospasm: Albuterol per drug chart via nebulizer SO. MR SO

medication **ONE TIME ONLY**. Base Hospital contact required prior to any Atrovent per drug chart added to first dose of Albuterol via nebulizer SO

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repeat dose.

Severe respiratory distress with bronchospasm

OR

Latex Sensitive Patients

Exposure to known allergen with previous severe reaction and onset of any allergic symptoms (e.g. urticaria, swelling, etc.):

Epinephrine 1:1,000 per drug chart SC SO. MR x2 q10" SO

Should be managed in a latex safe environment without compromising patient care. Prehospital personnel should inform the receiving facility personnel at the time of transfer if they become aware that the patient is latex sensitive.

Anaphylaxis (shock or cyanosis):

Epinephrine 1:1000 per drug chart SC SO. MR x2 q10" SO

IV/IO fluid bolus per drug chart SO. MR to maintain systolic BP > [70 + (2x)]

age)] <u>SO</u>

Epinephrine 1:10,000 per drug chart IVP/IO BHO. MR x2 q3-5" BHO

See Latex Safe Equipment List (S-105).

Epinephrine 1:1000 per drug chart ET BHO. MR x2 q3-5" BHO

Approved:

POLICY/PROCEDURE/PROTOCOL

SUBJECT: PEDIATRIC TREATMENT PROTOCOL --**DYSRHYTHMIAS**

Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

ALS BLS

Assess level of consciousness

Determine peripheral pulses

Ensure patent airway, ventilate

If pt. ≥ 1 year, pulseless and unconscious, and AED is available, may use.

Start CPR when heart rate indicates and patient is unstable:

Heart rate:

<9 yrs HR <60 bpm 9-14yrs HR <40bpm

Unstable Dysrhythmia: Includes heart rate as above and any of the following:

A. Poor Perfusion (cyanosis, delayed capillary refill, mottling)

OR

B. Altered LOC, Dyspnea or BP <[70+ (2 x age)]

OR

C. Diminished or Absent Peripheral Pulses

Note: ?dehydration may cause tachycardias up to 200/min.

Monitor EKG/ O₂ Saturation prn

IV/IO fluid bolus per drug chart with clear lungs SO. MR to maintain systolic BP \geq [70 + (2x age)] SO

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Date: 7/1/05

A. Unstable Bradycardia: Heart rate:

Infant/Child (<9 yrs) <60 bpm Child (9-14yrs) <40bpm

Ventilate per BVM for 30 seconds, then reassess HR prior to compressions and drug therapy.

Epinephrine 1:10,000 per drug chart IVP/IO SO. MR x2 q3-5" SO. MR q3-5" BHO

OR

Epinephrine 1:1000 per drug chart ET SO. MR x2 q3-5" SO. MR q3-5" BHO

Epinephrine 1:1000 per drug chart (diluted to 20ml) ETADesophageal via port 1 (blue) MR x2 q5" SO. MR q5" BHO

If age >30 days:

Atropine per drug chart IV/IO/ET SO. MR x1 in 5" SO

B. Supraventricular Tachycardia

<4yrs >240bpm >4yrs >200bpm

VSM per SO. MR SO

Adenosine per drug chart rapid IVP BHPO follow with 20ml NS IVP Adenosine per drug chart rapid IVP BHPO follow with 20ml NS IVP If no sinus pause, MR x1 BHPO

Versed per drug chart slow IVP prn precardioversion per BHPO

Synchronized cardioversion per drug chart (monophasic/biphasic) BHPO. MR per drug chart BHPO

Approved:

SUBJECT: PEDIATRIC TREATMENT PROTOCOL -- DYSRHYTHMIAS

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Date: 7/1/05

Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

BLS ALS

As above

C. VF/pulseless VT or cardiac arrest with no monitor available:

Defibrillate per drug chart (monophasic/biphasic). MR prn <u>SO</u> Intubate <u>SO</u>

NG prn SO

Epinephrine 1:10,000 per drug chart IVP/IO MR x2 q3-5" SO. MR q3-5" BHO

OR

Epinephrine 1:1000 per drug chart ET, MR x2 q3-5" SO. MR q3-5" BHO

OR

Epinephrine 1:1000 per drug chart (diluted to 20ml) ETAD-esophageal via port 1 (blue) MR x2 q5" \underline{SO} . MR q5" \underline{BHO}

If monitor available:

Lidocaine per drug chart IVP/IO SO. MR x2 q3- 5" SO

OF

Lidocaine per drug chart ET SO. MR x2 q3-5" SO

D. <u>Post conversion</u> VT/VF with pulse <u>></u> 60 (including witnessed spontaneous conversion, precordial thump, AED & AICD). If initial dose already given, continue with repeat doses as appropriate.

Lidocaine per drug chart IVP/IO SO. MR x2 q8-10" SO

OR

Lidocaine per drug chart ET SO. MR x2 q8-10" SO

E. Pulseless Electrical Activity:

Epinephrine 1:10,000 per drug chart IVP/IO. MR x2 in q3-5" SQ. MR q3-5" BHO

OR

Epinephrine 1:1000 per drug chart ET. MR x2 in q3-5" SO. MR q3-5" BHO

OR

Epinephrine 1:1000 per drug chart (diluted to 20ml) ETAD-esophageal via port 1 (blue) MR x2 q3-5" \underline{SO} . MR q3-5" $\underline{\mathbb{BHO}}$

Note: For patients in nonperfusing rhythms, consider early Base Hospital contact for disposition/pronouncement at scene.

For patients in nonperfusing rhythms, flush line with NS after medication administration

Approved:

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SUBJECT: PEDIATRIC TREATMENT PROTOCOL -- DYSRHYTHMIAS

Date: 7/1/05

Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

BLS ALS

As Above	F. <u>Asystole:</u> Intubate <u>SO</u> NG prn <u>SO</u>
	Epinephrine 1:10,000 per drug chart IVP/IO MR x2 q3-5" <u>SO</u> . MR q3-5" BHO OR
	Epinephrine 1:1000 per drug chart ET <u>SO</u> . MR x2 q3-5" <u>SO</u> . MR q3-5" <u>B</u> H© OR
	Epinephrine 1:1000 per drug chart (diluted to 20ml) ETAD-esophageal via port 1 (blue) MR x2 q5" <u>SO</u> . MR q5" BH☉
	Pronouncement at scene or transport <u>BHPO</u>

Note: For patients in nonperfusing rhythms, flush line with NS after medication administration.

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SAN DIEGO COUNTY EMERGENCY MEDICAL SERVICES POLICY/PROCEDURE/PROTOCOL

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SUBJECT: TREATMENT PROTOCOL -FNVFNOMATION INJURE

Date: 7/1/05

ENVENOMATION INJURIES-PEDIATRICS

BLS ALS

O₂ and/or ventilate prn

Jellyfish Sting:

Rinse with alcohol; do not rub or apply pressure

Stingray or Sculpin Injury:

Heat as tolerated

Snakebites:

Mark proximal extent of swelling Keep involved extremity at heart level and immobile IV SO adjust prn

Treat pain as per Pain Management Protocol (S-173)

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SUBJECT: PEDIATRIC TREATMENT PROTOCOL -- POISONING/OVERDOSE

BLS ALS

Ensure patent airway O₂ and/or ventilate prn **Ingestions**:

Identify substance

Consider transport LEFT side for ingestions

Skin:

Remove clothes
Flush with copious
water

Brush off dry chemicals then flush with copious amounts of water

Inhalation of Smoke/Gas/Toxic Substance:

Move patient to safe environment 100% O2 via mask Consider transport to facility with Hyperbaric chamber

?Tricyclic OD: Hyperventilate Monitor EKG/ O₂ Saturation prn IV <u>SO</u> adjust prn

Ingestions:

Charcoal per drug chart PO \underline{SO} (excluding isolated alcohol, heavy metals, hydrocarbons, caustic agents or iron ingestion). Assure child has gag reflex and is cooperative.

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Date: 7/1/05

<u>Symptomatic ?opioid OD (excluding opioid dependent pain management patients):</u>

Narcan per drug chart direct IVP/IV/IM SO. MR SO

<u>Symptomatic? opioid OD in opioid dependent pain management patients:</u>

Narcan titrate per drug chart direct IVP/IV (dilute IV dose to 10 ml with NS) or IM \underline{SO} . MR $\underline{\mathbb{BHO}}$

Symptomatic organophosphate poisoning:

Atropine per drug chart IVP/IM/IO/ET \underline{SO} . MR x2 q3-5" \underline{SO} . MR q3-5" prn \underline{BHO}

Extrapyramidal reactions:

Benadryl per drug chart slow IVP/IM SO

? Tricyclic OD with cardiac effects (hypotension, heart block, widened QRS):

NaHCO₃ per drug chart IVP x1 BHO

NOTE: For scene safety, consider Haz Mat activation as needed

Approved:

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Date: 7/1/05

SUBJECT: PEDIATRIC TREATMENT PROTOCOL -- NEWBORN DELIVERIES

BLS ALS

Suction baby's airway, first mouth, then nose, when head is delivered and prn

Ensure patent airway

O₂, ventilate 100% O2 prn

Clamp and cut cord between clamps following delivery Keep warm and dry (wrap in warm, dry blanket)

APGAR at 1" and 5"

Document time of delivery, who cut the cord and if placenta is delivered, time of delivery.

Premature and/or Low Birth Weight Infants:

If amniotic sac intact, remove infant from sac

STAT transport

When HR <100bpm, ventilate 100% O₂

If HR <60 bpm after 30 seconds of ventilation, start CPR. CPR need NOT be initiated if there are no signs of life AND:

- a) weight <500Gm OR,
- b) gestational age is <24 weeks, OR,
- c) eyelids are fused closed.

Meconium delivery with respiratory distress:

Additional vigorous suctioning and BVM ventilation may be necessary.

If mechanical suction is used, keep pressure between 80 and 100cm H₂0, otherwise use bulb syringe.

Cord wrapped around neck:

Slip the cord over the head and off the neck; clamp and cut the cord if wrapped too tightly.

Prolapsed cord:

Place the mother in shock position with her hips elevated on pillows, or knee chest position. Insert a gloved hand into the vagina and gently push the presenting part off the cord. TRANSPORT STAT WHILE RETAINING THIS POSITION. DO NOT REMOVE HAND UNTIL RELIEVED BY HOSPITAL PERSONNEL.

Breech Birth:

Allow infant to deliver to the waist without active assistance (support only); when legs and buttocks are delivered, the head can be assisted out. If head does not deliver within 1-2 min, insert a gloved hand into the vagina and create an airway for the infant. Transport STAT if head undelivered.

Monitor O₂ Saturation prn Ventilate 100% O₂ if HR<100 bpm

If HR remains <60 bpm after 30 seconds of ventilation:

CPR and Intubate <u>SO</u> NG prn <u>SO</u>

If HR remains <60 bpm after 30 seconds of CPR:

Epinephrine 1:10,000 per drug chart IVP/IO \underline{SO} . MR x2 q3-5" \underline{SO} . MR q3-5" \underline{BHO}

OR

Epinephrine 1:1000 per drug chart ET \underline{SO} . MR x2 q3-5" \underline{SO} . MR q3-5" \underline{BHO}

<u>Premature and low birth weight</u> infants:

Monitor EKG

Disposition: Direct to Labor/Delivery area per BHO.

Note: If time allows, place identification bands on mother and infant.

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BLS ALS

SUBJECT: PEDIATRIC TREATMENT PROTOCOL -- RESPIRATORY DISTRESS

Ensure patent airway
Dislodge any airway obstruction
Transport in position of comfort
Reassurance

O₂ and/or ventilate prn

Hyperventilation:

Coaching/reassurance. Remove patient from causative environment. Consider ?organic problem.

<u>Toxic Inhalants (CO exposure, Smoke, Gas, etc.):</u>

Move patient to safe environment 100% O2 via mask Consider transport to facility with hyperbaric chamber

Respiratory Distress with croup-like cough:

Aerosolized saline or water 5ml via oxygen powered nebulizer/mask. MR prn

Monitor EKG/ O₂ Saturation IV <u>SO</u> adjust prn Intubate <u>SO</u> prn

Respiratory Distress with Bronchospasm:

Albuterol per drug chart via nebulizer <u>SO</u>. MR <u>SO</u>
Atrovent per drug chart via nebulizer <u>SO</u> added to first dose of Albuterol

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If severe respiratory distress with bronchospasm or inadequate response to Albuterol/Atrovent consider:

Epinephrine 1:1,000 per drug chart SC <u>SO</u>. MR x2 q10" <u>SO</u>

Respiratory Distress with Stridor:

Epinephrine 1:1,000 per drug chart via nebulizer \underline{SO} MR x1 \underline{SO}

Note: If history suggests epiglottitis, do NOT visualize airway; utilize calming measures.

Approved:

SUBJECT: PEDIATRIC TREATMENT PROTOCOL -- SHOCK

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BLS ALS

Ensure patent airway, 02 and assist ventilation

Control hemorrhage

Determine peripheral pulses and capillary refill

Assess level of consciousness

Monitor EKG/O₂ Saturation IV/IO SO

Non cardiogenic Shock:

IV/IO fluid bolus per drug chart SO. MR to maintain systolic BP> [70 + (2x age)] SO if lungs clear

Date: 7/1/05

Cardiogenic Shock:

IV/IO fluid bolus per drug chart SO. MR x1 SO to maintain systolic BP≥ [70 + (2x age)] if lungs clear

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SUBJECT: TREATMENT PROTOCOL -- TRAUMA-PEDIATRICS

BLS ALS

Ensure patent airway, protecting C-spine Spinal immobilization prn O₂ and/or ventilate prn Control obvious bleeding

Abdominal Trauma:

Cover eviscerated bowel with saline pads

Chest Trauma:

Cover open chest wound with three-sided occlusive dressing; release dressing if ?tension pneumothorax develops.

Extremity Trauma:

Splint neurologically stable fractures as they lie. Use traction splint as indicated.

Grossly angulated long bone fractures with neurovascular compromise may be reduced with gentle unidirectional traction for splinting BHO.

Impaled Objects:

Immobilize & leave impaled objects in place. Remove <u>BHPO</u>

Exception: may remove impaled object in face/cheek, or from neck if there is total airway obstruction.

Neurological Trauma (Head & Spine Injuries):

Assure adequate airway and ventilate without hyperventilation.

Traumatic Arrest:

CPR. d/c BHPO

Monitor EKG/ O₂ Saturation prn IV/IO <u>SO</u> adjust prn

IV fluid bolus per drug chart for hypovolemic shock <u>SO</u>. MR to maintain systolic BP> [70 + (2x age)] <u>SO</u>

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Treat pain as per Pain Management Protocol S-173

<u>Crush injury</u> with extended entrapment \geq 2 hours of extremity or torso:

IV fluid bolus per drug chart when extremity released BHO

NaHCO₃ drug chart IVP BHO

Extremity Trauma:

Grossly angulated long bone fractures may be reduced with gentle unidirectional traction for splinting per SO

Impaled Objects:

Remove impaled object in face/cheek or neck if ventilation compromised \underline{SO}

Severe Respiratory Distress (with unilateral absent breath sounds AND BP < [70 + (2 x age)] in intubated or positive pressure ventilated patients):

Needle thoracostomy BHO

Traumatic Arrest:

Consider pronouncement at scene **BHPO**

TRANSPORT GUIDELINES:

Routine Disposition-Pediatric patients who meet criteria outlined in T-460 "Identification of the Pediatric Trauma Center Candidate" should be delivered to the Designated Pediatric Trauma Center, EXCEPT in the following situations:

1. Adult + Child:

- a. If there is a single ambulance (air/ground) with both a pediatric trauma center candidate AND an adult trauma center candidate, the ambulance should first deliver the more critical patient to the appropriate facility. If both patients are critical, or if there are other questions, both may be delivered to the designated adult trauma center.
- b. Field personnel should consider splitting the team using additional ALS transport vehicles, or aeromedical resources to transport the pediatric patient to pediatric trauma center and the adult to the catchment area adult trauma center.

Bypass/Diversion: If the designated pediatric trauma center is "on bypass", pediatric trauma candidates should be delivered to UCSD.

Approved:	en My	
	EMS Medical Director	

SUBJECT: TREATMENT PROTOCOL - BURNS-PEDIATRICS Date: 7/1/05

BLS ALS

Move to a safe environment Break contact with causative agent Ensure patent airway O₂ and/or ventilate prn Treat other life threatening injuries

Thermal Burns:

Burns of <10% BSA, cool with non-chilled saline or water

For burns of ≥10% BSA, cover with <u>dry</u> dressing and keep warm

Do not allow patient to become hypothermic

Chemical Burns:

Flush with copious water Brush off dry chemicals then flush with copious amounts of water

Tar Burns:

Cool with water, transport; do not remove tar.

Monitor EKG/ O₂ Saturation for significant electrical injury and prn

IV SO adjust prn

For patients with ≥10% 2nd degree or ≥5% 3rd degree burns:

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<u>5-14 yo</u>: IV 250 ml fluid bolus then TKO <u>SO</u> <u><5 yo:</u> IV 150 ml fluid bolus then TKO <u>SO</u>

Treat pain as per Pain Management Protocol S-173

<u>In the presence of respiratory distress with</u> bronchospasm:

Albuterol per drug chart via nebulizer \underline{SO} . MR \underline{SO}

Atrovent per drug chart via nebulizer <u>SO</u> added to first dose of Albuterol

Base Hospital Contact and Transport (Per S-415):

Will be made to UCSD Base Hospital for patients meeting burn center criteria:

BURN CENTER CRITERIA

Patients with burns involving:

- > 10% BSA 2nd degree or > 5% BSA 3rd degree
- · suspected respiratory involvement or significant smoke inhalation in a confined space
- significant injury of the face, hands, feet, perineum or circumferential
- significant electrical injury due to high voltage (greater than 110 volts)

Disposition:

Hyperbaric chamber for suspected CO poisoning

Approved:

SAN DIEGO COUNTY EMERGENCY MEDICAL SERVICES POLICY/PROCEDURE/PROTOCOL

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SUBJECT: PEDIATRIC TREATMENT PROTOCOL -

ALTE (Apparent Life Threatening Event) * See note Date: 7/1/05

BLS ALS

Ensure patent airway	Monitor EKG/ O₂ Saturation prn Monitor blood glucose prn
0 ₂ and/or ventilate prn. If parent/guardian refuses	Transport all cases that meet ALTE criteria to the nearest appropriate Emergency Department
transport: contact Base Hospital	Department

Note: An Apparent Life-Threatening Event is an episode involving an infant less than 12 months of age which includes one or more of the following:

- 1) Apnea
- 2) Color change (cyanosis, pallor)
- 3) Marked change in muscle tone (limpness or stiffness)
- 4) Unresponsiveness

Most of these infants will have a normal exam in the field but many will have a serious condition that needs to be assessed by a physician. Obtain detailed description/history of the event that triggered the 9-1-1response.

Approved:		
	an MB	

Date: 7/1/05

SUBJECT: PEDIATRIC TREATMENT PROTOCOL - PAIN MANAGEMENT

BLS ALS

Assess level of pain

Pain score assessment of < 5:

Immobilize/splint when indicated

Continue to monitor and reassess pain as appropriate.

Ice/elevation when indicated

For treatment of pain score assessment of ≥ 5 with systolic $BP \geq [70 + (2x \ age \ in \ years)]$:

MS IV per drug chart <u>SO</u> MR per drug chart BHO

OR

MS IM per drug chart \underline{SO} . MR per drug chart \underline{BHO}

OR

MS PO per drug chart SO, MR per drug chart BHO

BHPO for:

- Chronic pain states
- Isolated head injury
- Acute onset severe headache
- Drug/ETOH intoxication
- Multiple trauma with GCS <15
- Suspected active labor
- Abdominal pain

Note: These orders may be implemented after the paramedic assesses the level of pain and determines if patient/DDM agrees to treatment.

ALL patients with a traumatic or pain-associated chief complaint will have a paramedic assessment of level of pain using a standardized pain scale. All patients will be offered treatment for pain, unless contraindicated, and level of pain relief will be assessed after each treatment is given and prior to the end of the run.

The parenteral dose relative strength of MS is three times the oral dose of MS.



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